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# Pakistan Standard Classification of Occupations

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Statistics Division  
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## FOREWORD

It is standard practice to update the protocol of data collection and presentation in order to keep abreast of the changes in the size and composition of the quantifiable. These tasks are spearheaded by and mandated to UN agencies in consultations with National Statistical Offices. The latest International Standard Classification of Occupations (ISCO-2008) has been produced after 20 years of its predecessor ISCO of 1988.

It is customary to provide local variant of ISCO in order to take into account country specific changes in the configuration of occupations. Consequently, Pakistan followed suit to produce Pakistan Standard Classification of Occupations (PSCO) conform with the International Standard Classification of Occupations (ISCO). Pakistan started this process with the development of PSCO-1968 in accordance with the ISCO of the same year. 2<sup>nd</sup> edition was PSCO 1994 in accordance with ISCO1988. The present PSCO- 2015 is the last one in the series developed according to the latest ISCO-2008.

The document is distributed into five parts. 1<sup>st</sup> part articulates the basic structure of the occupations, 2<sup>nd</sup> part describes the definitions of major groups, sub-major groups, minor groups and unit groups, third part provides concordance tables of the latest and the previous classifications (PSCO -2015 vs. PSCO- 1994), fourth part dwells on occupational titles in alphabetical order while the last (fifth) part accounts for unit groups and occupational titles in the numerical order. It is also added that the present ISCO-2008 is at four (4) digits level while PSCO 2015 extends to five (5) digits.

In line with the established format, PSCO-2015 consists of major groups, sub-major groups, minor groups, unit groups and sub-unit groups. However, concordance tables constituting the third part of the document provide for one to one mapping up to four digits levels (Unit Groups) between PSCO-1994 and PSCO-2015. A draft PSCO 2012 was developed in accordance with ISCO – 08, Vol-I. However the latter's Vol. II, the index of occupational titles, was made available through aegis of the ILO office in 2014. Accordingly PSCO was updated in 2015 to produce this publication (PSCO-2015).

PSCO 2015 document has been produced in to two publications-one in entirety and other, comprising of part-4, the occupational configuration in alphabetical order. The latter publication serves to facilitate the job of enumerators fielded to carry out census and survey inquiries, as well as, the users at large.

Efforts have been made to bring the updated configuration of occupations into the fold of PSCO 2015. However, suggestions for improvement are welcome to produce the future editions of PSCO. It is hoped that the present 5-digits classification of occupations will meet the current and future requirements of all the users in their varied pursuits.

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## INTRODUCTION

In the wake of economic development, the extent and composition of the spectrum of occupations changes due to births, deaths and re-designation of occupations. In order to keep abreast with the changes, classification of occupations needs to be reviewed and updated after appropriate intervals of time. The spacing of these intervals depends upon the pace of changes which tend to accelerate with the passage of time. It is pertinent for the classification standards to be applicable universally in order to allow comparison across the space and time.

ii. International Labour Organization(ILO) being United Nations(UN) agency is mandated to spearhead the process of updating International Standard Classification of Occupation (ISCO) in consultation with the National Statistical Offices. After having completed the review of occupations through a well structured process, ILO releases the ISCO document for implementation by the member countries. In order to take into account the country-specific differences in the range and designations of occupations, it is customary to produce country-specific version of ISCO. Pursuantly, Pakistan Standard Classification of Occupations (PSCO) 2015 is produced to marry the national and international profile of occupations in an internationally comparable format.

iii. Pakistan started this process with the development of PSCO 1968 to conform with the ISCO of the same year. 2<sup>nd</sup> update, PSCO 1994 was developed in accordance with ISCO 1988. The third edition, PSCO 2015, has been developed on the basis of ISCO 2008, though finalized in 2015 after volume II of the ISCO 2008 was made available. The classification has already been implemented in the tabulation of the results of the Labour Force Survey (LFS) for 2012-13. All relevant data pursuits required to be carried out by Pakistan Bureau Of Statistics( PBS) will be patterned on PSCO 2015.

iv. ISCO, or for that matter, PSCO produced at different interval of time remain comparable in broader terms. The changes are manifested in the detail. The numbers of major groups remain same, however, sub-groups, minor-group, unit groups and sub-unit groups have increased. This change owes to merger, splitting of extant, as well as, introduction of new occupations. Further, PSCO 2015 is on five (5) digits level while the ISCO-08 is extended to four (4) digits level. Commutative designation of occupations e.g. “Bus driver” or “Driver bus”, “Machine operator” or “Operator machine”, though with same code-has been carried out-to facilitate users access to alphabetical order of occupations provided in this document. PSCO 2015 document has been produced in to two publications-one in entirety and other, comprising of part-4, the occupational configuration in alphabetical order. The latter publication serves to facilitate the job of enumerators fielded to carry out census and survey inquiries, as well as, the users at large.

v. This publication will be made recourse to pattern statistics from censuses ,household surveys, employer surveys and other surveys. It will also be used for administrative and policy related activities such as matching job seekers with job vacancies, planning of vocational education and training programmes, management of employment related migration.

vi. It is instructive to collate the three PSCO's, so far produced in order to make a comparison of their configuration in terms of groups, sub-groups, minor groups and unit groups. Table-1 below depicts the group configuration of the time series of PSCO. As expected PSCO's are congruent in broader terms, however, change is visible in details i.e. down the group (s).

**Table 1: A comparison of the Classification as Used for the Old and the New ISCO and PSCO**

<b>Classification</b>	<b>Major Groups</b>	<b>Sub-major Groups</b>	<b>Minor Groups</b>	<b>Unit Groups</b>
ISCO 1968	11	-	83	284
ISCO 1988	10	28	116	390
ISCO 2008	10	43	130	436
PSCO 1968	11	-	83	302
PSCO 1994	10	28	116	398
PSCO 2015	10	43	130	436

vii. The composition of occupational groups in terms of sub-major, minor and unit groups is given in table 2 below. For comparison the corresponding numbers PSCO 1994 groups (given in bracket s) are collated therein with those of PSCO-2015. Arguably, the change does not appear in major groups. It manifests in details.

**Table 2: Number of Groups at each level of PSCO-2015**

<b>S.No</b>	<b>Major groups</b>	<b>Sub-major Groups</b>	<b>Minor Groups</b>	<b>Unit Groups</b>
1	Managers	4(3)	11(8)	31(41)
2	Professionals	6(4)	27(18)	92(55)
3	Technicians and associate professionals	5(4)	20(21)	84(73)
4	Clerical support workers	4(2)	8(7)	29(23)
5	Service and sales workers	4(2)	13(9)	40(23)
6	Skilled agricultural, forestry and fishery	3(2)	9(6)	18(17)
7	Craft and related trades workers	5(4)	14(16)	66(70)
8	Plant and machine operators, and	3(3)	14(20)	40(70)
9	Elementary occupations	6(3)	11(10)	33(25)
0	Armed forces occupations	3(1)	3(1)	3(1)
<b>Total PSCO-2015(PSCO-1994)</b>		<b>43(28)</b>		<b>436(398)</b>



## CONCEPTS AND DEFINITIONS

### *Job and occupation*

1. A job is defined in PSCO-2015 as a “set of tasks and duties performed, or meant to be performed, by one person, including for an employer or in self employment”.
2. Occupation refers to the kind of work performed in a job. Occupation is defined as a “set of jobs whose main tasks and duties are characterized by a high degree of similarity”. A person may be associated with an occupation through the main job currently held, a second job, a future job or a job previously held.

### *Skill: level, specialization*

3. Skill is defined as the ability to carry out the tasks and duties of a given job. Skill has two dimensions, skill level and skill specialization.
4. Skill level is defined as a function of the complexity and range of tasks and duties to be performed in an occupation. Operationally, skill level is measured with respect to the following factors:
  - The nature of the work performed in an occupation in relation to the characteristic tasks and duties defined for each PSCO-2015 skill level
  - The level of formal education defined in terms of the International Standard Classification of Education (ISCED-97, UNESCO, 1997) as prerequisite to perform the tasks and duties and
  - The amount of informal on-the-job training and/or previous experience in a related occupation to perform in requisite tasks and duties.
5. The concept of skill level is applied mainly at the top (major group) level of the classification, emphasizing the operational measures in the same order
6. Skill specialization is considered/evaluated in terms of four concepts:
  - The field of knowledge required;
  - The tools and machinery used;
  - The material worked on or with; and
  - The kind of goods and services produced.

### *PSCO-2015- skill levels*

7. PSCO-2015 demarcates four skill levels ala PSCO-1994. The latest classification also takes into accounts cases where formal educational requirements may not be the most suitable method of measuring the skill level of a particular occupation. Skill level is defined on the basis of the following characteristics.
  - The typical or characteristic tasks performed at each skill level;
  - The types of skill required (in broad terms); and
  - The typical occupations classified at that skill level.

### ***Skill Level: 1***

8. Occupations at Skill Level 1 typically involve the performance of simple and routine physical or manual tasks. They may require the use of hand-held tools, such as shovels, or of simple electrical equipment, such as vacuum cleaners. They involve tasks such as cleaning, digging, lifting and carrying materials by hand; sorting or assembling goods by hand (sometimes in the context of mechanized operations); operating non-motorized vehicles; and picking fruits and vegetables.

9. Many occupations at Skill Level 1 may require physical strength and/or endurance. For some jobs basic skills in literacy and numeracy may be required. These skills wouldn't constitute a major part of the work.

10. For competent performance in some occupations at Skill Level I, completion of primary education or the first stage of basic education (ISCED-97 level -1) may be required. A short period of on-the-job training may be required for some jobs.

11. Occupations classified at Skill Level I include office cleaners, freight handlers, garden laborers and kitchen assistants.

### ***Skill Level: 2***

12. Occupations at Skill Level 2 typically involve the performance of tasks such as operating machinery and electronic equipment; driving vehicles; maintenance and repair of electrical and mechanical equipment; and manipulation, ordering and storage of information.

13. For almost all occupations at Skill Level 2 the ability to read information such as safety instructions to make written records of work completed, and to accurately perform simple arithmetical calculations is essential. Many occupations at this skill level require relatively advance literacy and numeracy skills and good interpersonal communication skills. In some occupations these skills are required for a major part of the work. Many occupations at this skill level require a high level of manual dexterity.

14. The knowledge and skills required for competent performance in occupations at Skill Level 2 are generally obtained through completion of the first stage of secondary education (ISCED-97 Level 2). Some occupations require the completion of the second stage of secondary education (ISCED-97 Level-3), which may include a significant component of specialized vocational education and on the job training. Some occupations require completion of vocation-specific education undertaken after completion of secondary education (ISCED-97 Level 4). In some cases experience and on-the-job training may substitute for the formal education.

15. Occupations classified at Skill Level 2 include butchers, bus drivers, secretaries, accounts clerks, sewing machinists, dressmakers, shop sales assistants. Police officers, hairdressers, building electricians and motor vehicle mechanics.

### ***Skill Level: 3***

16. Occupations at Skill Level 3 typically involve the performance of complex technical and practical tasks that require an extensive body of factual, technical and procedural knowledge in a specialized field. Examples of specific tasks performed include: ensuring compliance with health, safety and related regulations; preparing detailed estimates of quantities and costs of materials and labour required for specific projects; coordinating, supervising controlling and scheduling the activities of other workers; and performing technical functions in support of professionals.

17. Occupations at this skill level generally require a high level of literacy and numeracy and well-developed interpersonal communications skills. These skills may include the ability to understand complex written material, prepare factual reports and communicate verbally in difficult circumstances.

18. The knowledge and skills required for competent performance in occupations at Skill Level 3 are usually obtained as the result of study at a higher educational institution for a period of 1-3 years following completion of secondary education (ISCED-97 Level 5b). In some cases extensive relevant work experience and prolonged on-the-job training may substitute for the formal education.

19. Occupations classified at Skill Level 3 include shop managers, medical laboratory technicians, legal secretaries, commercial sales representatives, diagnostic medical radiographers, computer support technicians, and broadcasting and recording technicians.

#### ***Skill Level 4***

20. Occupations at Skill Level 4 typically involve the performance of tasks that require complex problem-solving, decision-making and creativity based on an extensive body of theoretical and factual knowledge in a specialized field. The tasks performed typically include analysis and research to extend the body of human knowledge in a particular field, diagnosis and treatment of disease, imparting knowledge to others, and design of structures of machinery and of processes for construction and production.

21. Occupations at this skill level generally require extended levels of literacy and numeracy, sometimes at a very high level, and excellent interpersonal communications skills. These skills usually include the ability to understand complex written material and communicate complex ideas in medical such as books, images, performances, reports and oral presentations.

22. The knowledge and skills required for competent performance in occupations at Skill level 4 are usually obtained as the result of study at a higher educational institution for a period of 3-6 years leading to the award of a first degree or higher qualification (ISCED-97 Level 5a or higher). In some cases extensive experience and on-the-job training may substitute for the formal education, or may be required in addition to formal education. In many cases appropriate formal qualification are an essential requirement for entry to the occupation.

23. Occupations classified at skill Level 4 include sales and marketing managers, civil engineers, secondary school teachers, medical practitioners, musicians, operating theatre nurses and computer system analysis.

#### ***Skill Levels and Major Groups***

24. The relationship between the ten PSCO-2015 major groups and the four skill levels is summarized in Table-3. Arguably, more than one skill levels may belong to a major group.

**Table 3: Mapping of PSCO-2015 Major Groups to Skill level.**

<b>PSCO-2015: Major Groups</b>	<b>Skill Level</b>
Managers	3+4
Professionals	4
Technicians and Associate Professionals	3
Clerical Support Workers	2
Services and Sales Workers	2
Skilled Agricultural, Forestry and Fishery Workers	2
Craft and Related Trades Workers.	2
Plant and Machine Operators, and Assemblers	2
Elementary Occupations	1
Armed Forces Occupations	1+2+4

25. In case where formal education and training requirements are used as part of the measurement of the skill level of an occupation, resource is made to ISCED-97. A mapping between ISCO skill levels and levels of education in ISCED-97 is provided in Table-4.

**Table 4: Mapping of the four ISCO, Skill Levels to ISCED-97 Levels of Education**

<b>ISCO, Skill level</b>	<b>ISCED-97 Groups</b>
4	6 Second stage of tertiary education (leading to an advanced research qualifications 5a First stage of tertiary education, 1 <sup>st</sup> degree (medium durations
3	5b First Stage of tertiary education (short or medium duration)
2	4 Post-Secondary, non-tertiary education 3 Upper Secondary level of education 2 Lower secondary level of education
1	1 Primary level of education.

26. The use of ISCED categories to assist in defining the four skill levels does not imply that the skills necessary to perform the tasks and duties of a given job can be acquired only through formal education. The skills may be, and often are, acquired through informal training and experience. In addition, it should be emphasized that the focus in PSCO-2015 is on the skills required to carry out the tasks and duties of an occupation-and not on whether a worker employed in a particular occupation is more or less skilled than another worker in the same occupation.

27. Formal education and training requirements are thus only one component of the measurement of skill level and should be seen as indicative. The most important determinant of skill level is the nature of the tasks performed in a particular occupation in relation to the characteristic tasks defined for each skill level. In considering these tasks, however, it should be noted that the level of generic skills (those skills that are not specific to a particular occupational group and are required for many jobs) may differ significantly between occupations due to the nature of the job. For example, insurance representatives classified at Skill Level 3 may require a higher level of interpersonal communications skills than software developers at Skill Level 4, mainly due to differences in nature of the work performed.

28. Since the entity classified is the job, not the Persons who holds the job, it is not relevant to consider the skills or qualifications held by the person in order to classify the job. It is not necessary for a person to hold qualifications at a particular level in order for their job to be classified at a particular PSCO-2015 skill level. Thus, for example, a person who is employed in a job that requires the performance of the tasks of a bricklayer should be classified in Unit Group 7112; Bricklayers and related workers, whether or not that person holds formal qualifications as bricklayer or is a good, bad or indifferent bricklayer. Similarly, a person who is employed in a job that require the performance of the tasks of a Veterinarians should be classified in Unit Group 2250; Veterinarians whether or not that person hold formal qualifications as a veterinarians or is competent to perform these tasks.

29. Finally, it should be noted that the concept of skill level is applied by considering the level of skill required for competent performance of the tasks required for entry-level jobs in a particular occupational group. Some individuals employed in occupations classified at a particular skill level may therefore possess higher or lower skills. The level of skill required for more senior jobs in a particular occupation may also be higher than that required for the occupation as a whole.

**Part-1**                      **Detailed Structure**  
**Major Group-1**        **Managers**

Sub-major Group	Minor Group	Unit Group	Description
<b>11</b>			<b>Chief executives, senior officials and legislators</b>
	111		Legislators and senior officials
		1111	Legislators
		1112	Senior government officials
		1113	Traditional chiefs and heads of village
		1114	Senior officials of special-interest organizations
	112		Managing directors and chief executives
		1120	Managing directors and chief executives
<b>12</b>			<b>Administrative and commercial managers</b>
	121		Business services and administration managers
		1211	Finance managers
		1212	Human resource managers
		1213	Policy and planning managers
		1219	Business services and administration managers not elsewhere classified
	122		Sales, marketing and development managers
		1221	Sales and marketing managers
		1222	Advertising and public relations managers
		1223	Research and development managers
<b>13</b>			<b>Production and specialised services managers</b>
	131		Production managers in agriculture, forestry and fisheries
		1311	Agricultural and forestry production managers
		1312	Aquaculture and fisheries production managers
	132		Manufacturing, mining, construction, and distribution managers
		1321	Manufacturing managers
		1322	Mining managers
		1323	Construction managers
		1324	Supply, distribution and related managers
	133		Information and communications technology service managers
		1330	Information and communications technology service managers
	134		Professional services managers
		1341	Child care services managers
		1342	Health services managers

Sub-major Group	Minor Group	Unit Group	Description
<b>14</b>		1343	Aged care services managers
		1344	Social welfare managers
		1345	Education managers
		1346	Financial and insurance services branch managers
		1349	Professional services managers not elsewhere classified
			<b>Hospitality, retail and other services managers</b>
	141		Hotel and restaurant managers
		1411	Hotel managers
		1412	Restaurant managers
	142		Retail and wholesale trade managers
		1420	Retail and wholesale trade managers
	143		Other services managers
		1431	Sports, recreation and cultural centre managers
		1439	Services managers not elsewhere classified

## Major Group 2      Professionals

Sub-major Group	Minor Group	Description
<b>21</b>		<b>Science and engineering professionals</b>
	211	Physical and earth science professionals
		2111 Physicists and astronomers
		2112 Meteorologists
		2113 Chemists
		2114 Geologists and geophysicists
	212	Mathematicians, actuaries and statisticians
		2120 Mathematicians, actuaries and statisticians
	213	Life science professionals
		2131 Biologists, botanists, zoologists and related professionals
		2132 Farming, forestry and fisheries advisers
		2133 Environmental protection professionals
	214	Engineering professionals (excluding electro technology)
		2141 Industrial and production engineers
		2142 Civil engineers
		2143 Environmental engineers
		2144 Mechanical engineers
		2145 Chemical engineers

Sub-major Group	Minor Group	Unit Group	Description
22	215	2146	Mining engineers, metallurgists and related professionals
		2149	Engineering professionals not elsewhere classified
			Electro technology engineers
		2151	Electrical engineers
		2152	Electronics engineers
		2153	Telecommunications engineers
	216		Architects, planners, surveyors and designers
		2161	Building architects
		2162	Landscape architects
		2163	Product and garment designers
		2164	Town and traffic planners
		2165	Cartographers and surveyors
		2166	Graphic and multimedia designers
			<b>Health professionals</b>
	221		Medical doctors
		2211	Generalist medical practitioners
		2212	Specialist medical practitioners
	222		Nursing and midwifery professionals
		2221	Nursing professionals
		2222	Midwifery professionals
	223		Traditional and complementary medicine professionals
		2230	Traditional and complementary medicine professionals
	224		Paramedical practitioners
		2240	Paramedical practitioners
	225		Veterinarians
		2250	Veterinarians
	226		Other health professionals
		2261	Dentists
		2262	Pharmacists
		2263	Environmental and occupational health and hygiene professionals
		2264	Physiotherapists
		2265	Dieticians and nutritionists
		2266	Audiologists and speech therapists
		2267	Optometrists and ophthalmic opticians
		2269	Health professionals not elsewhere classified



Sub-major Group	Minor Group	Unit Group	Description
<b>23</b>			<b>Teaching professionals</b>
	231		University and higher education teachers
		2310	University and higher education teachers
	232		Vocational education teachers
		2320	Vocational education teachers
	233		Secondary education teachers
		2330	Secondary education teachers
	234		Primary school and early childhood teachers
		2341	Primary school teachers
		2342	Early childhood educators
	<b>235</b>		<b>Other teaching professionals</b>
		2351	Education methods specialists
		2352	Special needs teachers
		2353	Other language teachers
		2354	Other music teachers
		2355	Other arts teachers
		2356	Information technology trainers
		2359	Teaching professionals not elsewhere classified
<b>24</b>			<b>Business and administration professionals</b>
	<b>241</b>		<b>Finance professionals</b>
		2411	Accountants
		2412	Financial and investment advisers
		2413	Financial analysts
	<b>242</b>		<b>Administration professionals</b>
		2421	Management and organization analysts
		2422	Policy administration professionals
		2423	Personnel and careers professionals
		2424	Training and staff development professionals
	<b>243</b>		<b>Sales, marketing and public relations professionals</b>
		2431	Advertising and marketing professionals
		2432	Public relations professionals
		2433	Technical and medical sales professionals (excluding ICT)
		2434	Information and communications technology sales professionals
<b>25</b>	<b>251</b>		<b>Software and applications developers and analysts</b>
		2511	Systems analysts
		2512	Software developers
		2513	Web and multimedia developers

Sub-major Group	Minor Group	Unit Group	Description
26	252	2514	Applications programmers
		2519	Software and applications developers and analysts not elsewhere classified
			<b>Database and network professionals</b>
		2521	Database designers and administrators
		2522	Systems administrators
		2523	Computer network professionals
		2529	Database and network professionals not elsewhere classified
			<b>Legal, social and cultural professionals</b>
	261		Legal professionals
		2611	Lawyers
		2612	Judges
		2619	Legal professionals not elsewhere classified
	262		Librarians, archivists and curators
		2621	Archivists and curators
		2622	Librarians and related information professionals
	263		Social and religious professionals
		2631	Economists
		2632	Sociologists, anthropologists and related professionals
		2633	Philosophers, historians and political scientists
		2634	Psychologists
		2635	Social work and counseling professionals
		2636	Religious professionals
	264		Authors, journalists and linguists
		2641	Authors and related writers
		2642	Journalists
		2643	Translators, interpreters and other linguists
	265		Creative and performing artists
		2651	Visual artists
		2652	Musicians, singers and composers
		2653	Dancers and choreographers
		2654	Film, stage and related directors and producers
		2655	Actors
		2656	Announcers on radio, television and other media
		2659	Creative and performing artists not elsewhere classified

### Major Group 3      Technicians and associate professionals

Sub-major Group	Minor Group	Unit Group	Description
<b>31</b>			<b>Science and engineering associate professionals</b>
	311		Physical and engineering science technicians
		3111	Chemical and physical science technicians
		3112	Civil engineering technicians
		3113	Electrical engineering technicians
		3114	Electronics engineering technicians
		3115	Mechanical engineering technicians
		3116	Chemical engineering technicians
		3117	Mining and metallurgical technicians
		3118	Draughts persons
		3119	Physical and engineering science technicians not elsewhere classified
	312		Mining, manufacturing and construction supervisors
		3121	Mining supervisors
		3122	Manufacturing supervisors
		3123	Construction supervisors
	313		Process control technicians
		3131	Power production plant operators
		3132	Incinerator and water treatment plant operators
		3133	Chemical processing plant controllers
		3134	Petroleum and natural gas refining plant operators
		3135	Metal production process controllers
		3139	Process control technicians not elsewhere classified
	314		Life science technicians and related associate professionals
		3141	Life science technicians (excluding medical)
		3142	Agricultural technicians
		3143	Forestry technicians
	315		Ship and aircraft controllers and technicians
		3151	Ships' engineers
		3152	Ships' deck officers and pilots
		3153	Aircraft pilots and related associate professionals
		3154	Air traffic controllers
		3155	Air traffic safety electronics technicians
<b>32</b>			<b>Health associate professionals</b>
	321		Medical and pharmaceutical technicians
		3211	Medical imaging and therapeutic equipment technicians

Sub-major Group	Minor Group	Unit Group	Description
33	322	3212	Medical and pathology laboratory technicians
		3213	Pharmaceutical technicians and assistants
		3214	Medical and dental prosthetic technicians
			Nursing and midwifery associate professionals
		3221	Nursing associate professionals
		3222	Midwifery associate professionals
	323		Traditional and complementary medicine associate professionals
		3230	Traditional and complementary medicine associate professionals
	324		Veterinary technicians and assistants
		3240	Veterinary technicians and assistants
	325		Other health associate professionals
		3251	Dental assistants and therapists
		3252	Medical records and health information technicians
		3253	Community health workers
		3254	Dispensing opticians
		3255	Physiotherapy technicians and assistants
		3256	Medical assistants
		3257	Environmental and occupational health inspectors and associates
		3258	Ambulance workers
		3259	Health associate professionals not elsewhere classified
			<b>Business and administration associate professionals</b>
	331		Financial and mathematical associate professionals
		3311	Securities and finance dealers and brokers
		3312	Credit and loans officers
		3313	Accounting associate professionals
		3314	Statistical, mathematical and related associate professionals
		3315	Valuers and loss assessors
	332		Sales and purchasing agents and brokers
		3321	Insurance representatives
		3322	Commercial sales representatives
		3323	Buyers
		3324	Trade brokers
	333		Business services agents
		3331	Clearing and forwarding agents
		3332	Conference and event planners
		3333	Employment agents and contractors
		3334	Real estate agents and property managers

Sub-major Group	Minor Group	Unit Group	Description
<b>34</b>	334	3339	Business services agents not elsewhere classified
			Administrative and specialised secretaries
		3341	Office supervisors
		3342	Legal secretaries
		3343	Administrative and executive secretaries
	335	3344	Medical secretaries
			Regulatory government associate professionals
		3351	Customs and border inspectors
		3352	Government tax and excise officials
		3353	Government social benefits officials
		3354	Government licensing officials
		3355	Police inspectors and detectives
		3359	Regulatory government associate professionals not elsewhere classified
			<b>Legal, social, cultural and related associate professionals</b>
	341		Legal, social and religious associate professionals
		3411	Legal , and related associate professionals
		3412	Social work associate professionals
		3413	Religious associate professionals
	342		Sports and fitness workers
		3421	Athletes and sports players
		3422	Sports coaches, instructors and officials
		3423	Fitness and recreation instructors and program leaders
		343	Artistic, cultural and culinary associate professionals
		3431	Photographers
		3432	Interior designers and decorators
		3433	Gallery, museum and library technicians
		3434	Chefs
		3435	Other artistic and cultural associate professionals
<b>35</b>	351		<b>Information and communications technicians</b>
			Information and communications technology operations and user support technicians
		3511	Information and communications technology operations technicians
		3512	Information and communications technology user support technicians
	352	3513	Computer network and systems technicians
		3514	Web technicians
			Telecommunications and broadcasting technicians
		3521	Broadcasting and audio-visual technicians
		3522	Telecommunications engineering technicians

## Major Group 4      Clerical support workers

Sub-major Group	Minor Group	Unit Group	Description
<b>41</b>			<b>General and keyboard clerks</b>
	411		General office clerks
		4110	General office clerks
	412		Secretaries (general)
		4120	Secretaries (general)
	413		Keyboard operators
		4131	Typists and word processing operators
		4132	Data entry clerks
<b>42</b>			<b>Customer services clerks</b>
	421		Tellers, money collectors and related clerks
		4211	Bank tellers and related clerks
		4212	Bookmakers, croupiers and related gaming workers
		4213	Pawnbrokers and money-lenders
		4214	Debt-collectors and related workers
	422		Client information workers
		4221	Travel consultants and clerks
		4222	Contact centre information clerks
		4223	Telephone switchboard operators
		4224	Hotel receptionists
		4225	Enquiry clerks
		4226	Receptionists (general)
		4227	Survey and market research interviewers
		4229	Client information workers not elsewhere classified
<b>43</b>			<b>Numerical and material recording clerks</b>
	431		Numerical clerks
		4311	Accounting and bookkeeping clerks
		4312	Statistical, finance and insurance clerks
		4313	Payroll clerks
	432		Material-recording and transport clerks
		4321	Stock clerks
		4322	Production clerks
		4323	Transport clerks

Sub-major Group	Minor Group	Unit Group	Description
<b>44</b>			<b>Other clerical support workers</b>
	441		Other clerical support workers
		4411	Library clerks
		4412	Mail carriers and sorting clerks
		4413	Coding, proof-reading and related clerks
		4414	Scribes and related workers
		4415	Filing and copying clerks
		4416	Personnel clerks
		4419	Clerical support workers not elsewhere classified

## Major Group 5      Service and sales workers

Sub-major Group	Minor Group	Unit Group	Description
<b>51</b>			<b>Personal Services</b>
	511		Travel attendants and guides
		5111	Travel attendants and travel stewards
		5112	Transport conductors
		5113	Travel guides
	512		Cooks
		5120	Cooks
	513		Waiters and bartenders
		5131	Waiters
		5132	Bartenders
	514		Hairdressers, beauticians and related workers
		5141	Hairdressers
		5142	Beauticians and related workers
	515		Building and housekeeping supervisors
		5151	Cleaning and housekeeping supervisors in offices, hotels and other establishments
		5152	Domestic housekeepers
		5153	Building caretakers
	516		Other personal services workers
		5161	Astrologers, fortune-tellers and related workers
		5162	Companions and valets
		5163	Undertakers and embalmers

Sub-major Group	Minor Group	Unit Group	Description
<b>52</b>		5164	Pet groomers and animal care workers
		5165	Driving instructors
		5169	Personal services workers not elsewhere classified
			<b>Sales workers</b>
	521		Street and market salespersons
		5211	Stall and market salespersons
		5212	Street food salespersons
	522		Shop salespersons
		5221	Shop keepers
		5222	Shop supervisors
		5223	Shop sales assistants
	523		Cashiers and ticket clerks
		5230	Cashiers and ticket clerks
	524		Other sales workers
		5241	Fashion and other models
		5242	Sales demonstrators
		5243	Door to door salespersons
		5244	Contact centre salespersons
		5245	Service station attendants
		5246	Food service counter attendants
		5249	Sales workers not elsewhere classified
			<b>Personal care workers</b>
	531		Child care workers and teachers' aides
		5311	Child care workers
		5312	Teachers' aides
	532		Personal care workers in health services
		5321	Health care assistants
		5322	Home-based personal care workers
		5329	Personal care workers in health services not elsewhere classified
<b>54</b>			<b>Protective services workers</b>
	541		Protective services workers
		5411	Fire-fighters
		5412	Police officers
		5413	Prison guards
		5414	Security guards
		5419	Protective services workers not elsewhere classified



**Major Group 6      Skilled agricultural, forestry and fishery workers**

<b>Sub-major Group</b>	<b>Minor Group</b>	<b>Unit Group</b>	<b>Description</b>
<b>61</b>			<b>Market-oriented skilled agricultural workers</b>
	611		Market gardeners and crop growers
		6111	Field crop and vegetable growers
		6112	Tree and shrub crop growers
		6113	Gardeners, horticultural and nursery growers
		6114	Mixed crop growers
	612		Animal producers
		6121	Livestock and dairy producers
		6122	Poultry producers
		6123	Apiarists and sericulturists
		6129	Animal producers not elsewhere classified
	613		Mixed crop and animal producers
		6130	Mixed crop and animal producers
<b>62</b>			<b>Market-oriented skilled forestry, fishery and hunting workers</b>
	621		Forestry and related workers
		6210	Forestry and related workers
	622		Fishery workers, hunters and trappers
		6221	Aquaculture workers
		6222	Inland and coastal waters fishery workers
		6223	Deep-sea fishery workers
		6224	Hunters and trappers
<b>63</b>			<b>Subsistence farmers, fishers, hunters and gatherers</b>
	631		Subsistence crop farmers
		6310	Subsistence crop farmers
	632		Subsistence livestock farmers
		6320	Subsistence livestock farmers
	633		Subsistence mixed crop and livestock farmers
		6330	Subsistence mixed crop and livestock farmers
	634		Subsistence fishers, hunters, trappers and gatherers
		6340	Subsistence fishers, hunters, trappers and gatherers

## Major Group 7      Craft and related trades workers

Sub-major Group	Minor Group	Unit Group	Description
<b>71</b>			<b>Building and related trades workers, excluding electricians</b>
	711		Building frame and related trades workers
		7111	House builders
		7112	Bricklayers and related workers
		7113	Stonemasons, stone cutters, splitters and carvers
		7114	Concrete placers, concrete finishers and related workers
		7115	Carpenters and joiners
		7119	Building frame and related trades workers not elsewhere classified
	712		Building finishers and related trades workers
		7121	Roofers
		7122	Floor layers and tile setters
		7123	Plasterers
		7124	Insulation workers
		7125	Glaziers
		7126	Plumbers and pipe fitters
		7127	Air conditioning and refrigeration mechanics
	713		Painters, building structure cleaners and related trades workers
		7131	Painters and related workers
		7132	Spray painters and varnishers
		7133	Building structure cleaners
<b>72</b>			<b>Metal, machinery and related trades workers</b>
	721		Sheet and structural metal workers, molders and welders, and related workers
		7211	Metal molders and core makers
		7212	Welders and flame cutters
		7213	Sheet-metal workers
		7214	Structural-metal preparers and erectors
		7215	Riggers and cable splices
	722		Blacksmiths, toolmakers and related trades workers
		7221	Blacksmiths, hammer smiths and forging press workers
		7222	Toolmakers and related workers
		7223	Metal working machine tool setters and operators
		7224	Metal polishers, wheel grinders and tool sharpeners
	723		Machinery mechanics and repairers
		7231	Motor vehicle mechanics and repairers

Sub-major Group	Minor Group	Unit Group	Description	
73		7232	Aircraft engine mechanics and repairers	
		7233	Agricultural and industrial machinery mechanics and repairers	
		7234	Bicycle and related repairers	
			<b>Handicraft and printing workers</b>	
	731		Handicraft workers	
		7311	Precision-instrument makers and repairers	
		7312	Musical instrument makers and tuners	
		7313	Jewellery and precious-metal workers	
		7314	Potters and related workers	
		7315	Glass makers, cutters, grinders and finishers	
		7316	Sign writers, decorative painters, engravers and etchers	
		7317	Handicraft workers in wood, basketry and related materials	
		7318	Handicraft workers in textile, leather and related materials	
		7319	Handicraft workers not elsewhere classified	
	732		Printing trades workers	
		7321	Pre-press technicians	
		7322	Printers	
		7323	Print finishing and binding workers	
74			<b>Electrical and electronic trades workers</b>	
	741		Electrical equipment installers and repairers	
		7411	Building and related electricians	
		7412	Electrical mechanics and fitters	
		7413	Electrical line installers and repairers	
	742		Electronics and telecommunications installers and repairers	
		7421	Electronics mechanics and servicers	
		7422	Information and communications technology installers and servicers	
	75			<b>Food processing, wood working, garment and other craft and related trades workers</b>
		751		Food processing and related trades workers
		7511	Butchers, fishmongers and related food preparers	
		7512	Bakers, pastry-cooks and confectionery makers	
		7513	Dairy-products makers	
		7514	Fruit, vegetable and related preservers	
		7515	Food and beverage tasters and graders	
		7516	Tobacco preparers and tobacco products makers	
752			Wood treaters, cabinet-makers and related trades workers	

Sub-major Group	Minor Group	Unit Group	Description
		7521	Wood treaters
		7522	Cabinet-makers and related workers
		7523	Woodworking-machine tool setters and operators
	753		Garment and related trades workers
		7531	Tailors, dressmakers, furriers and hatters
		7532	Garment and related pattern-makers and cutters
		7533	Sewing, embroidery and related workers
		7534	Upholsterers and related workers
		7535	Pelt dressers, tanners and fell mongers
		7536	Shoemakers and related workers
	754		Other craft and related workers
		7541	Underwater divers
		7542	Shotfirers and blasters
		7543	Product graders and testers (excluding foods and beverages)
		7544	Fumigators and other pest and weed controllers
		7549	Craft and related workers not elsewhere classified

## Major Group 8 Plant and machine operators, and assemblers

Sub-major Group	Minor Group	Unit Group	Description
<b>81</b>			<b>Stationary plant and machine operators</b>
	811		Mining and mineral processing plant operators
		8111	Miners and quarries
		8112	Mineral and stone processing plant operators
		8113	Well drillers and borers and related workers
		8114	Cement, stone and other mineral products machine operators
	812		Metal processing and finishing plant operators
		8121	Metal processing plant operators
		8122	Metal finishing, plating and coating machine operators
	813		Chemical and photographic products plant and machine operators
		8131	Chemical products plant and machine operators
		8132	Photographic products machine operators
	814		Rubber, plastic and paper products machine operators
		8141	Rubber products machine operators
		8142	Plastic products machine operators
		8143	Paper products machine operators

Sub-major Group	Minor Group	Unit Group	Description
	815		Textile, fur and leather products machine operators
		8151	Fibre preparing, spinning and winding machine operators
		8152	Weaving and knitting machine operators
		8153	Sewing machine operators
		8154	Bleaching, dyeing and fabric cleaning machine operators
		8155	Fur and leather preparing machine operators
		8156	Shoemaking and related machine operators
		8157	Laundry machine operators
		8159	Textile, fur and leather products machine operators not elsewhere classified
	816		Food and related products machine operators
		8160	Food and related products machine operators
	817		Wood processing and papermaking plant operators
		8171	Pulp and papermaking plant operators
		8172	Wood processing plant operators
	818		Other stationary plant and machine operators
		8181	Glass and ceramics plant operators
		8182	Steam engine and boiler operators
		8183	Packing, bottling and labeling machine operators
		8189	Stationary plant and machine operators not elsewhere classified
<b>82</b>			<b>Assemblers</b>
	821		Assemblers
		8211	Mechanical machinery assemblers
		8212	Electrical and electronic equipment assemblers
		8219	Assemblers not elsewhere classified
<b>83</b>			<b>Drivers and mobile plant operators</b>
	831		Locomotive engine drivers and related workers
		8311	Locomotive engine drivers
		8312	Railway brake, signal and switch operators
	832		Car, van and motorcycle drivers
		8321	Motorcycle drivers
		8322	Car, taxi and van drivers
	833		Heavy truck and bus drivers
		8331	Bus and tram drivers
		8332	Heavy truck and lorry drivers
	834		Mobile plant operators

Sub-major Group	Minor Group	Unit Group	Description
		8341	Mobile farm and forestry plant operators
		8342	Earthmoving and related plant operators
		8343	Crane, hoist and related plant operators
		8344	Lifting truck operators
	835		Ships' deck crews and related workers
		8350	Ships' deck crews and related workers

## Major Group 9 Elementary occupations

Sub-major Group	Minor Group	Unit Group	Description
<b>91</b>			<b>Cleaners and helpers</b>
	911		Domestic, hotel and office cleaners and helpers
		9111	Domestic cleaners and helpers
		9112	Cleaners and helpers in offices, hotels and other establishments
	912		Vehicle, window, laundry and other hand cleaning workers
		9121	Hand launderers and pressers
		9122	Vehicle cleaners
		9123	Window cleaners
		9129	Other cleaning workers
<b>92</b>			<b>Agricultural, forestry and fishery labourers</b>
	921		Agricultural, forestry and fishery labourers
		9211	Crop farm labourers
		9212	Livestock farm labourers
		9213	Mixed crop and livestock farm labourers
		9214	Garden and horticultural labourers
		9215	Forestry labourers
		9216	Fishery and aquaculture labourers
<b>93</b>			<b>Labourers in mining, construction, manufacturing and transport</b>
	931		Mining and construction labourers
		9311	Mining and quarrying labourers
		9312	Civil engineering labourers
		9313	Building construction labourers
	932		Manufacturing labourers
		9321	Hand packers
		9329	Manufacturing labourers not elsewhere classified
	933		Transport and storage labourers

Sub-major Group	Minor Group	Unit Group	Description
<b>94</b>		9331	Hand and pedal vehicle drivers
		9332	Drivers of animal-drawn vehicles and machinery
		9333	Freight handlers
		9334	Shelf fillers
<b>95</b>			<b>Food preparation assistants</b>
		941	Food preparation assistants
		9411	Fast food preparers
		9412	Kitchen helpers
<b>96</b>			<b>Street and related sales and service workers</b>
		951	Street and related service workers
		9510	Street and related service workers
		952	Street vendors (excluding food)
		9520	Street vendors (excluding food)
			<b>Refuse workers and other elementary workers</b>
		961	Refuse workers
		9611	Garbage and recycling collectors
		9612	Refuse sorters
		9613	Sweepers and related labourers
		962	Other elementary workers
		9621	Messengers, package deliverers and luggage porters
		9622	Odd job persons
		9623	Meter readers and vending-machine collectors
		9624	Water and firewood collectors
		9629	Elementary workers not elsewhere classified

## Major Group 0 Armed forces occupations

Sub-major Group	Minor Group	Unit Group	Description
<b>01</b>			<b>Commissioned armed forces officers</b>
		011	Commissioned armed forces officers
<b>02</b>		0110	Commissioned armed forces officers
			<b>Non-commissioned armed forces officers</b>
		021	Non-commissioned armed forces officers
<b>03</b>		0210	Non-commissioned armed forces officers
			<b>Armed forces occupations, other ranks</b>
		031	Armed forces occupations, other ranks
		0310	Armed forces occupations, other ranks

## Part-2

### DEFINITIONS OF MAJOR GROUPS, SUB – MAJOR GROUPS, MINOR GROUPS AND UNIT GROUPS

#### Major Group-1

##### Managers

Managers plan, direct, coordinate and evaluate the overall activities of enterprises, governments and other organizations, or of organizational units within them, and formulate and review their policies, laws, rules and regulations.

Tasks performed by managers usually include: formulating and advising on the policy, budgets, laws and regulations of enterprises, governments and other organizational units; establishing objectives and standards and formulating and evaluating programs and policies and procedures for their implementation; ensuring appropriate systems and procedures are developed and implemented to provide budgetary control; authorising material, human and financial resources to implement policies and programs; monitoring and evaluating performance of the organization or enterprise and of its staff; selecting, or approving the selection of staff; ensuring compliance with health and safety requirements; planning and directing daily operations; representing and negotiating on behalf of the government, enterprise or organizational unit managed in meetings and other forums.

Occupations in this major group are classified into the following sub-major groups:

- 11 Chief executives, senior officials and legislators
- 12 Administrative and commercial managers
- 13 Production and specialized services managers
- 14 Hospitality, retail and other services managers

##### 11 Chief executives, senior officials and legislators

Chief executives, senior officials and legislators formulate and review the policies and plan, direct coordinate and evaluate the overall activities of enterprises, governments and other organizations with the support of other managers.

Tasks performed usually include: presiding over or participating in the proceedings of legislative bodies, boards of directors and committees; formulating and advising on the policy budgets, laws and regulations of enterprises, governments and other organizations; establishing objectives for enterprises, government departments, agencies and other organizations; formulating or approving and evaluating programs and policies and procedures for their implementation; ensuring appropriate systems and procedures are developed and implemented to provide budgetary control; authorising material, human and financial resources to implement policies and programs; monitoring and evaluating performance of the organization or enterprise; selecting, or approving the selection of senior staff; performing ceremonial duties and representing the enterprise, government, organization or community at official occasions and in meetings, negotiations, conventions and public hearings.

Occupations in this sub-major group are classified into the following minor groups:



- 111 Legislators and senior officials
- 112 Managing directors and chief executives

## **111 Legislators and senior officials**

Legislators and senior officials determine, formulate, advise on and direct the implementation of policies of national, state, regional or local governments or communities, and of special interest organizations. They make, ratify, amend or repeal laws, public rules and regulations and plan, organize, direct, control and evaluate the overall activities of government departments and agencies, traditional communities and special interest organizations.

Tasks performed usually include:

Presiding over or participating in the proceedings of legislative bodies and administrative councils of governments, legislative assemblies, local communities and special interest organizations; serving on government administrative boards or official committees; investigating matters of concern to the public and promoting the interests of constituents; formulating and advising on government policy, budgets, laws and regulations; establishing objectives for organizations and formulating or approving and evaluating programs and policies and procedures for their implementation; recommending, reviewing, evaluating and approving documents, briefs and reports submitted; ensuring appropriate systems and procedures are developed and implemented to provide budgetary control; allocating the use of communal land and other resources; performing ceremonial duties and representing the government, organization or community at official occasions and in meetings, negotiations, conventions and public hearings.

Occupations in this minor group are classified into the following unit groups:

- 1111 - Legislators
- 1112 - Senior government officials
- 1113 - Traditional chiefs and heads of village
- 1114 - Senior officials of special-interest organizations

### **1111 Legislators**

Legislators determine, formulate, and direct policies of national, state, regional or local governments and international governmental agencies, and make, ratify, amend or repeal laws, public rules and regulations. They include elected and non-elected members of parliaments, councils and governments.

Tasks include -

- (a) presiding over or participating in the proceedings of legislative bodies and administrative councils of national, state, regional or local governments or legislative assemblies;
- (b) determining, formulating, and directing policies of national, state, regional or local governments;
- (c) making, ratifying, amending or repealing laws, public rules and regulations within a statutory or constitutional framework;
- (d) serving on government administrative boards or official committees;
- (e) investigating matters of concern to the public and promoting the interests of the constituencies which they represent;
- (f) attending community functions and meetings to provide service to the community, understand public opinion and provide information on government plans;
- (g) negotiating with other legislators and representatives of interest groups in order to reconcile differing interests, and to create policies and agreements;
- (h) as members of the government, directing senior administrators and officials of government

departments and agencies in the interpretation and implementation of government policies.

Examples of the occupations classified here:

- City councilor
- Government minister
- Mayor
- Member of parliament
- President (government)
- Secretary of State
- Senator
- State Governor

## **1112 Senior government officials**

Senior government officials advise governments on policy matters, oversee the interpretation and implementation of government policies and legislation by government departments and agencies, represent their country abroad and act on its behalf, or carry out similar tasks in intergovernmental organizations. They plan, organize, direct, control and evaluate the overall activities of municipal or local, regional and national government departments, boards, agencies or commissions in accordance with legislation and policies established by government and legislative bodies.

Tasks include -

- (a) advising national, state, regional or local governments and legislators on policy matters;
- (b) advising on the preparation of government budgets, laws and regulations, including amendments;
- (c) establishing objectives for government departments or agencies in accordance with government legislation and policy;
- (d) formulating or approving and evaluating programs and procedures for the implementation of government policies in conjunction or consultation with government;
- (e) recommending, reviewing, evaluating and approving documents, briefs and reports submitted by middle managers and senior staff members;
- (f) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
- (g) coordinating activities with other senior government managers and officials;
- (h) making presentations to legislative and other government committees regarding policies programs or budgets;
- (i) overseeing the interpretation and implementation of government policies and legislation by government departments and agencies.

Examples of the occupations classified here:

- Ambassador
- City administrator
- Civil service commissioner
- Consul-general
- Director-general (government department)
- Director-general (intergovernmental organization)
- Fire commissioner
- Inspector-general (police)
- Permanent head (government department)
- Police commissioner
- Secretary-general, government administration
- Secretary-general, government administration (deputy)

### **1113 Traditional chiefs and heads of villages**

Traditional chiefs and heads of villages perform a variety of legislative, administrative and ceremonial tasks and duties, determined by ancient traditions, as well as by the division of rights and responsibilities between village chiefs and the local, regional and national authorities.

Tasks include -

- (a) allocating the use of communal land and other resources among households in the community or village;
- (b) collecting and distributing surplus production of the community or village;
- (c) settling disputes between members of the community or village;
- (d) disciplining members of the community or village for violation of rules and customs;
- (e) performing ceremonial duties in connection with births, marriages, deaths, harvests and other important occasions;
- (f) representing the community or village on local or regional councils;
- (g) informing the community or village about government rules and regulations.

### **1114 Senior officials of special-interest organizations**

Senior officials of special-interest organizations determine, formulate and direct the implementation of policies of special-interest organizations, such as political-party organizations, trade unions, employers' organizations, trade and industry associations, humanitarian or charity organizations, or sports associations, and represent their organizations and act on their behalf.

Tasks include -

- (a) determining and formulating the policies, rules and regulations of the organization;
- (b) planning, directing and coordinating the general functioning of the organization;
- (c) reviewing the operations and results of the organization and reporting to boards of directors and governing bodies, the organization's membership and funding agencies;
- (d) negotiating on behalf of the organization, its members and relevant special-interest groups;
- (e) promoting the interests of the organization, its members and relevant special-interest groups before the legislature, government or general public;
- (f) planning, organizing and directing sections charged with implementing the organization's policies, programmes, rules and regulations;
- (g) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
- (h) monitoring and evaluating performance of the organization or enterprise against established objectives and policies;
- (i) representing the organization at official occasions and board meetings, in negotiations, at conventions, public hearings and forums.

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>11</b>	<b>Sub-major Group</b>	<b>Chief executives, senior officials and legislators</b>
<b>111</b>	<b>Minor Group</b>	<b>Legislators and senior officials</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1111</b>		<b>Legislators</b>
	11111	President , government/ Prime minister / Chief minister/ Minister (junior)/ Member of parliament/Senator/Governor- General/ Head of State/Legislator/Member, legislative assembly/legislative council/Politician/ Premier/Member, house of assembly/Parliamentarian
	11112	Councilor ( city/ government)/ Ombudsman/ Mayor/Chancellor, government
	11113	Chairman (all government bodies)/ (Chairman /member) public service commission/ Governor, state/ Member, all government bodies
	11114	Member, local body /district council/Nazim/Naib Nazim
	11115	Parliamentary Secretary / Secretary parliamentary committee / Commissioner, election (chief/ deputy)
	11116	Official, legislative/ Chief whip
	11117	Chairman (local body /district council)/Chairman(deputy),senate/Speaker (deputy)
	11118	Representative, legislative/Secretary of state/Whip, government/Whip, opposition Leader
<b>1112</b>		<b>Senior government officials</b>
	11121	<b>Senior government officials in Audit &amp; Accounts, Services, Insurance &amp; Financial Banking</b> Director-general/ Director (deputy/assistant)/Governor (deputy) State Bank/ Inspector/Accountant, general (government official)/Comptroller / Collector of (Deputy/assistant) customs/Officer, accounts/ Officer, budget / Officer, credit control/Officer, excise & taxation / Officer, income tax/Officer, land requisition/ Officer, pay(roll)/ Officer, revenue/ Officer, wealth tax/Postmaster
	11122	<b>Senior government officials in Police Services</b> Director-general (asstt.)/ Director (deputy/assistant)/Inspector -general, (asstt) police/ Superintendent, police (additional/deputy)/ Superintendent, jail/ Commandant/Commissioner, police/ Constable, chief: police,Officer,civil defence, Officer intelligence Police.
	11123	<b>Senior government officials in Secretariat &amp; Managing Services</b> Director-general, Secretariat & Managing Services (asstt.)/ Director (deputy/assistant)/ Secretariat & Managing Services, Inspector Secretariat & Managing Services/ Secretary(additional/deputy/joint) (government official)/ Coordinator, Haj/Officer (assistant), protocol/ Officer, administrative/Officer, estate / Officer, organization and methods/Officer, protocol / Officer, section/ Officer, passport/Officer, saving (divisional)/ Officer, tourist/ PS to minister/ Chief secretary/ Home secretary/Secretary Government official.

Unit Group	Sub-unit Group	Description
	11124	<b>Senior government officials in Educational Services</b> Director-general/Director (deputy/assistant)/Inspector /Adviser (joint), educational (government official)/Scholar, research (government official)/Instructor, chief (government official)/Officer, apprenticeship Officer
	11125	<b>Senior government officials in Foreign Services</b> Coordinator, general (foreign services)/Director-general (asstt)/ Director (deputy/assistant), /Inspector/Ambassador / Secretary (1 <sup>st</sup> /2 <sup>nd</sup> ), Inspector foreign Services
	11126	<b>Senior government officials in Judiciary and District Administration</b> Director-general (asstt)/ Director (deputy/assistant)/Inspector/Commissioner (additional), district/Commissioner ( Assistant/deputy/additional), district/District Coordinating officer(D.C.O)/Commissioner, Chief/ Attorney, general (government official)/Registrar, cooperative societies/ Registrar, court/ Registrar, other (government official)/Member, judicial / Rector, justice/ Adviser, legal (government official)/Officer (chief), district council/ Officer, firearms/ Officer, labour Administrator, city/Administrator, government/ Administrator, intergovernmental/organization/Commissioner, fire/ Commissioner, high: government/Commissioner, inland revenue
	11127	<b>Senior government officials in Medical Services</b> Director-general (asstt)/ Director (deputy/assistant)/Inspector-/Controller, (deputy) drugs /Officer, anti-malaria/ Officer, food (scientific)/ Officer, public health
	11128	<b>Senior government officials in Research, Monitoring &amp; Evaluation Services</b> Director-general (asstt)/ Director (deputy/assistant)/Inspector/Commissioner (deputy), agriculture/ Commissioner, cotton/Chief (assistant/deputy) (government official)/Officer, data control / Officer, research/ Surveyor (deputy/assistant), general/Adviser, economic (government official)
	11129	<b>Senior government officials in Engineering &amp; Other Service</b> Director-general (asstt)/ Director (deputy/assistant)/Inspector/Adviser (chief/ deputy), engineering (government official)/Controller, rationing/ Officer, water logging/ Officer, sector (agriculture)/Inspector, boilers/ Inspector, explosives/ Inspector, boundary/Inspector, railways / Consul-general/Director-general, intergovernmental organization/Head, chancery/Head, government department/Head, permanent: government department/ Paymaster-general, government Representative, diplomatic/Director Representative, embassy/ Secretary, embassy/Secretary-general/Head, government administration/Head, Under-secretary, government government department/Paymaster-general, government Representative, diplomatic/Representative, embassy Secretary, embassy/Secretary-general, government administration Under-secretary, government

Unit Group	Sub-unit Group	Description
<b>1113</b>		<b>Traditional chiefs and heads of villages</b>
	11131	Chief, village / Head, village
	11132	Numberdar
	11133	Elder, tribal
<b>1114</b>		<b>Senior officials of special-interest organizations</b>
	11141	President ,/ Secretary-general / Chairperson/ Leader/ Official (senior), political party/ Agent (political)
	11142	Official (senior)/ Secretary-general, trade union/ (President /Secretary-general/ Director general) employers' organization/ Official, senior: employers' organization
	11143	Administrator, chamber of commerce/ Administrator, trade or professional organization/ Manager, labour union
	11144	Secretary-general (environment protection/ wild life protection / human rights/ humanitarian/ red crescent/ red cross/ special-interest organization)
	11145	Official (senior), humanitarian/ special- interest organization
	11146	Chairperson, charity/Chairperson, employers' organization/Chairperson, environment protection organization/Chairperson, human rights organization/ Chairperson, humanitarian organization/Chairperson, special-interest organization/Chairperson, sports association/Chairperson, trade union/Chairperson, wild life protection organization/
	11147	Director-general, environment protection organization/Director-general, human rights organization\Director-general, humanitarian organization/Director-general, political party/Director-general, special-interest organization/Director-general, trade union/Director-general, wild life protection organization/

## 112 Managing directors and chief executives

Managing directors and chief executives formulate and review the policies and plan, direct, coordinate and evaluate the overall activities of enterprises or organizations (except special interest organizations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

Tasks performed usually include:

Planning, directing and coordinating the general functioning of an enterprise or organization; reviewing the operations and results of the enterprise, or organization, and reporting to boards of directors and governing bodies; determining objectives, strategies, policies and programs for the enterprise or organization; providing overall direction and management to organizations; establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources; authorising material, human and financial resources to implement organizational policies and programs;

monitoring and evaluating performance of the organization or enterprise against established objectives and policies; consulting with senior subordinate staff and reviewing recommendations and reports; representing the organization at official occasions, in negotiations, at conventions, seminars, public hearings and forums; selecting, or approving the selection of senior staff; ensuring the organization complies with relevant legislation and regulations

Occupations in this minor group are classified into the following unit group:

1120 Managing directors and chief executives

## **1120 Managing directors and chief executives**

Managing directors and chief executives formulate and review the policies and plan, direct coordinate and evaluate the overall activities of enterprises or organizations (except special interest organizations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

Tasks include -

- (a) planning, directing and coordinating the general functioning of an enterprise or organization;
- (b) reviewing the operations and results of the enterprise, or organization and reporting to boards of directors and governing bodies;
- (c) determining objectives, strategies, policies and programs for the enterprise or organization;
- (d) providing overall leadership and management to the enterprise or organization;
- (e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (f) authorizing material, human and financial resources to implement organizational policies and programs;
- (g) monitoring and evaluating performance of the organization or enterprise against established objectives and policies;
- (h) consulting with senior subordinate staff and reviewing recommendations and reports;
- (i) representing the organization at official occasions and board meetings, in negotiations, at conventions, seminars, public hearings and forums;
- (j) selecting, or approving the selection of senior staff;
- (k) ensuring the organization complies with relevant legislation and regulations

Examples of the occupations classified here:

- Chief executive
- Managing director
- Regional manager

### **Notes:**

Regional managers and other senior managers who coordinate and supervise the activities of subordinate managers who have a diverse range of functional responsibilities are included in unit group 1120, Managing directors and chief executives. Managers responsible for specialized functions within a specific geographic area are excluded from this unit group. For example, regional sales managers are classified in unit group 1221, Sales and marketing managers. Jobs whose principle responsibility is to participate as a member of the board of directors of one or more enterprises or organizations are included in unit group 1120, Managing directors and chief executives. Chief executives of government owned enterprises are included in unit group 1120, Managing directors and chief executives.



<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>11</b>	<b>Sub-major Group</b>	<b>Chief executives, senior officials and legislators</b>
<b>112</b>	<b>Minor Group</b>	<b>Managing directors and chief executives</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1120</b>		<b>Managing directors and chief executives</b>
	11201	Director (asstt/ deputy), health
	11202	Director (broadcasting / insurance/ public relations/ company/ industry)
	11203	Executive (chief)/ President company/ Managing-director/ Director-general enterprise/chairperson) organisation/ President enterprise
	11204	Chairman, council of Islamic ideology/ Islamic research institution
	11205	Chancellor (vice). University
	11206	Rector, college/Rector, university/Officer, commercial(divisional)
	11207	Director/ Executive, Director Mining/quarrying, Other
	11208	Chairperson, enterprise/Chancellor, university/Chief executive/Director, company/Director, executive/Director, managing/Director, regional/Executive, chief/Member, board/Officer, chief executive /Officer, chief operating

## **12 Administrative and commercial managers**

Administrative and commercial managers plan, organize, direct, control and coordinate the financial, administrative, human resource, policy, planning, research and development, advertising, public relations, and sales and marketing activities of enterprises and organizations, or of enterprises that provide such services to other enterprises and organizations.

Tasks performed by workers in this sub-major group usually include:

Formulating and administering policy advice, strategic and financial planning; establishing and directing operational and administrative procedures; implementing, monitoring and evaluating strategies and policies; providing advice to senior Managers; directing the development of initiatives for new products, marketing, public relations and advertising campaigns; determining and directing sales activities, product mix, customer service standards; setting prices and credit arrangements; ensuring compliance with relevant legislation, regulations and standards; controlling selection, training and performance of staff; preparing budgets and overseeing financial operations; consulting with the chief executive and with managers of other departments or sections; controlling expenditure and ensuring the efficient use of resources; representing the enterprise or organization in negotiations, and at conventions, seminars, public hearings and forums.

Occupations in this sub-major group are classified into the following minor groups:

- 121 Business services and administration managers
- 122 Sales, marketing and development managers



## **121 Business services and administration managers**

Business services and administration managers plan, organize, direct, control and coordinate the financial, administrative, human resource, policy, planning, activities of organizations, or of enterprises that provide such services to other enterprises and organizations

Tasks usually include: formulating and administering policy advice, strategic and financial planning; establishing and directing operational and administrative procedures; implementing, monitoring and evaluating strategies and policies; providing advice to senior managers and board members on financial, administrative strategic, policy, program and legislative issues; ensuring compliance with relevant legislation, regulations and standards; controlling selection, training and performance of staff; preparing budgets and overseeing financial operations; consulting with the chief executive and with managers of other departments or sections; controlling expenditure and ensuring the efficient use of resources; representing the organization in negotiations, and at conventions, seminars, public hearings and forums.

Occupations in this minor group are classified into the following unit groups:

- 1211 - Finance managers
- 1212 - Human resource managers
- 1213 - Policy and planning managers
- 1219 - Business services and administration managers not elsewhere classified

### **1211 Finance managers**

Finance managers plan, direct and coordinate the financial operations of an enterprise or organization, in consultation with senior managers and with managers of other departments or sections.

Tasks include -

- (a) planning, directing and coordinating the financial operations of an enterprise or organization;
- (b) assessing the financial situation of the enterprise or organization, preparing budgets and overseeing financial operations;
- (c) consulting with the chief executive and with managers of other departments or sections
- (d) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (e) establishing and directing operational and administrative procedures;
- (f) planning and directing daily operations;
- (g) overseeing the selection, training and performance of staff;
- (h) representing the enterprise or organization in dealings with outside bodies.

Examples of the occupations classified here:

- Administration manager
- Company secretary
- Finance manager

Some related occupations classified elsewhere:

- Financial institution branch manager – 1346
- Financial controller - 2411
- Management accountant - 2411

## **1212 Human resource managers**

Human resource managers, plan, direct and coordinate policies concerning the personnel, industrial relations and occupational health and safety activities of an enterprise or organization, or of enterprises that provide human resource services to other enterprises and organizations.

Tasks include -

- (a) planning, directing and coordinating the personnel and industrial relations activities, policies and practices of an enterprise or organization;
- (b) planning and organizing procedures for recruitment, training, promotion, transfer and dismissal of staff,
- (c) planning and organizing negotiations and procedures for determination of wage structures and level and for consultation with workers on conditions of employment;
- (d) overseeing safety, health and related programmes and activities;
- (e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (f) establishing and directing operational and administrative procedures;
- (g) overseeing the development and implementation of management information systems;
- (h) ensuring compliance with standards and legislation relating to employees rights, health and safety, equal opportunity and related concerns;
- (i) overseeing the selection, training and performance of staff for the entire enterprise or organization;
- (j) consulting with senior management and with managers of other departments;
- (k) representing the enterprise or organization in dealings with outside bodies.

Examples of the occupations classified here:

- Industrial relations manager
- Personnel manager
- Recruitment manager

## **1213 Policy and planning managers**

Policy and planning managers plan, organize, direct and coordinate policy advice and strategic planning activities within government or for non-government organizations and private sector agencies, or manage the activities of enterprises that provide policy and strategic planning services.

Tasks include -

- (a) developing, implementing and monitoring strategic plans, programs, policies, processes, systems and procedures to achieve goals, objectives and work standards;
- (b) developing, directing, administering and participating in policy research and analysis;
- (c) coordinating the implementation of policies and practices;
- (d) establishing activity measures and measurements of accountability;
- (e) planning and directing daily operations;
- (f) leading and managing the activities of policy development and strategic planning staff;
- (g) overseeing the selection, training and performance of staff;
- (h) representing the enterprise or organization in negotiations, and at conventions, seminars, public hearings and forums;

Examples of the occupations classified here:

- Policy manager
- Strategic planning manager
- Corporate planning manager

## 1219 Business services and administration managers not elsewhere classified

This unit group covers business services and administration managers not classified elsewhere in minor group 121, Business services and administration managers. For instance, the group includes occupations such as facilities manager, cleaning services manager, administrative services manager.

In such cases tasks would include:

- (a) providing administrative, strategic planning and operational support, research and advice to senior management on matters such as the management of building facilities and administrative services;
- (b) developing and managing the organization's administrative and physical resources;
- (c) developing and implementing administrative and procedural statements and guidelines for use by staff in the organization;
- (d) analyzing complex resource management issues and initiatives that affect the organization, and preparing associated reports, correspondence and submissions;
- (e) providing information and support for the preparation of financial reports and budgets;
- (f) leading, managing and developing administrative staff to ensure smooth business operations and the provision of accurate and timely information;
- (g) representing the enterprise or organization in negotiations, and at conventions, seminars, public hearings and forums;
- (h) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (i) planning and directing daily operations;
- (j) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Administrative services manager
- Cleaning services manager
- Corporate services manager
- Facilities manager
- Purchasing manager

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>12</b>	<b>Sub-major Group</b>	<b>Administrative and commercial managers</b>
<b>121</b>	<b>Minor Group</b>	<b>Business services and administration managers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1211</b>		<b>Finance managers</b>
	12111	Controller of branches (banking)/ Department -manager, bank
	12112	Department –manager (manager), accounting/ budgeting/ finance/ revenue
	12113	Officer, foreign exchange
	12114	Purser, ship
	12115	Manager, finance, Other
	12116	Director, budgeting
	12117	Director, finance
	12118	Manager, accounts/Manager, auditing firm/Officer, chief financial/Banker/Registrar, company/Treasurer company

Unit Group	Sub-unit Group	Description
<b>1212</b>		<b>Human resource managers</b>
	12121	Department -manager, industrial relations/ Manager, department: employee relations/Manager, department: recruitment/Manager/ Department work place relations
	12122	Manager, field party
	12123	Department -manager, personnel
	12124	Officer, development
	12125	Officer (recruitment/operations)
	12126	Executive, client service
	12127	Director(human resources/ personnel/ recruitment)
	12128	Manager( employee relations/ human resources/ workplace relations)
<b>1213</b>		<b>Policy and planning managers</b>
	12131	Policy manager/Manager, business planning/Manager, compliance Manager, corporate planning/Manager, fisheries: conservation/Manager, fisheries: policy/Manager, planning: policy/Manager/Manager, policy development/Manager, public policy/Manager, social administration/Manager, social planning/Manager/Officer, chief compliance
	12132	Strategic planning manager
	12133	Corporate planning manager
	12134	Coordinator, policy: government/Director, compliance Director, policy and planning/Director, strategic planning
<b>1219</b>		<b>Business services and administration managers not elsewhere classified</b>
	12191	General-manager / Department-manager, production and operations (business services)
	12192	General-manager /Department –manager, production and operations (personal care) / (cleaning)/ Manager, department: cleaning
	12193	Department -manager. production and operations (public administration)
	12194	Department-manager, production and operations (travel agency)
	12195	Department –manager, production and operations (extra-territorial organizations)
	12196	Director, administrative services/Director, corporate services/Director, facilities management/Manager, administrative services/Manager, corporate/ services/Manager, department: administration/Manager, facilities/Manager, general: business services/Manager, general: cleaning
	12197	Supervisor, documentation (water transportation)
	12198	Secretary (executive), company
	12199	Manager business(n.e.c)

## 122 Sales, marketing and development managers

Sales, marketing and development managers plan, organize, direct, control and coordinate the advertising, public relations, research and development, and sales and marketing activities of

enterprises and organizations, or of enterprises that provide such services to other enterprises and organizations.

Tasks usually include: formulating and implementing policies and plans for advertising, public relations, product development, sales and marketing in consultation with other managers; directing the development of initiatives for new products or scientific research; marketing, public relations and advertising campaigns; determining and directing sales activities, product mix, customer service standards and merchandising methods and distribution policy; setting prices and credit arrangements; establishing and managing budgets and controlling expenditure to ensure the efficient use of resources; overseeing the selection, training and performance of staff; representing the enterprise or organization at conventions, trade exhibitions and other forums.

Occupations in this minor group are classified into the following unit groups:

- 1221 Sales and marketing managers
- 1222 Advertising and public relations managers
- 1223 Research and development managers

### **1221 Sales and marketing managers**

Sales and marketing managers plan, direct and coordinate the sales and marketing activities of an enterprise or organization, or of enterprises that provide sales and marketing services to other enterprises and organizations.

Tasks include -

- (a) planning and organizing special sales and marketing programmes based on sales records and market assessments;
- (b) determining price lists, discount and delivery terms, sales promotion budgets, sales methods, special incentives and campaigns;
- (c) establishing and directing operational and administrative procedures related to sales and marketing activities;
- (d) leading and managing the activities of sales and marketing staff;
- (e) planning and directing daily operations;
- (f) establishing and managing budgets and controlling expenditure to ensure the efficient use of resources;
- (g) overseeing the selection, training and performance of staff;
- (h) representing the enterprise or organization at sales and marketing conventions, trade exhibitions and other forums.

Examples of the occupations classified here:

- Marketing manager
- Sales manager

### **1222 Advertising and public relations managers**

Advertising and public relations managers plan, direct and coordinate the advertising, public relations and public information activities of enterprises and organizations or of enterprises that provide related services to other enterprises and organizations.

Tasks include -

- (a) planning, directing and coordinating the advertising and public relations activities of an enterprise or organization;
- (b) negotiating advertising contracts with clients or with newspapers, radio and television

- stations, sports and cultural organizations and advertising agencies;
- (c) planning and managing information programmes to inform legislators, the mass media and the general public about the plans, accomplishments and points of view of the enterprise or organization;
- (d) leading and managing the activities of advertising and public relations staff;
- (e) establishing and managing budgets and controlling expenditure and ensuring the efficient use of resources;
- (f) establishing and directing operational and administrative procedures;
- (g) planning and directing daily operations;
- (h) overseeing the selection, training and performance of staff;

Examples of the occupations classified here:

- Advertising manager
- Public relations manager

### **1223 Research and development managers**

Research and development managers plan, direct and coordinate the research and development activities of an enterprise or organization or of enterprises that provide related services to other enterprises and organizations.

Tasks include -

- (a) planning, directing and coordinating research and development activities, in-house or commissioned from external research organizations, to develop new or improved technical processes, products, knowledge, or utilization of materials;
- (b) planning the overall research and development programme of an enterprise or organization, specifying goals and budgetary requirements;
- (c) leading and managing the activities of research and development staff;
- (d) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (e) establishing and directing operational and administrative procedures;
- (f) planning and directing daily operations;
- (g) overseeing the selection, training and performance of staff;
- (h) representing the enterprise or organization at conventions, seminars and conferences.

Examples of the occupations classified here:

- Product development manager
- Research manager

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>12</b>	<b>Sub-major Group</b>	<b>Administrative and commercial managers</b>
<b>122</b>	<b>Minor Group</b>	<b>Sales, marketing and development managers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
		<b>Administrative and commercial managers</b>
<b>1221</b>		<b>Sales and marketing department managers</b>
	12211	Executive/ Department-manager, sales (except wholesale and retail trade) / sales promotion
	12212	Manager, sales (insurance)
	12213	Manager, safe deposits / credit/ loan (financial corporation)
	12214	Manager (assistant) sales,( telephone/mobile phone/internet)/ railway services
	12215	Department-manager, marketing
	12216	Organiser/Supervisor, sales (regional or overseas)/ (wholesale/retail trade)
	12217	Manager, commercial/Manager, exports
	12218	Director, marketing/Director, sales
<b>1222</b>		<b>Advertising and public relations managers</b>
	12221	Department-manager, advertising
	12222	Department -manager, public relations
	12223	Supervisor, correspondence section
	12224	Director, public relations/Manager, communications: public relations
<b>1223</b>		<b>Research and development managers</b>
	12231	Department -manager, research
	12232	Director (project), agriculture information
	12233	Department -manager, development
	12234	Director( business development: except ICT/ clinical trials/ product development)/Manager (clinical trials/ product development/ programme: research/ project: clinical trials/ project: research), <b>Manger Research, Manager Research &amp; Development</b>

### **13 Production and specialized services managers**

Production and specialized services managers plan direct and coordinate the production of the goods and the provision of the specialized professional and technical services provided by an enterprise or organization. They are responsible for manufacturing, mining, construction, logistics, information and communications technology operations, for large scale agricultural, forestry and fisheries operations, and for the provision of health, education, social welfare, banking, insurance and other professional and technical services.

Tasks performed by workers in this sub-major group usually include: planning details of activities in terms of output, services provided, quality, quantity, cost, timeliness and labour requirements; setting standards and objectives; controlling the operation of plant and of procedures; assuring quality of the goods produced and services provided; preparing tenders and contract bids; establishing and managing budgets, monitoring costs, and adjusting activities, procedures and resources to minimize costs;



overseeing the acquisition and installation of new plant and equipment; coordinating the implementation of health and safety requirements; planning and directing daily operations; overseeing the selection, training and performance of staff; preparing, or arranging for the preparation of, reports, budgets and forecasts; representing the enterprise or organization in negotiations with other agencies, and at conventions, seminars, public hearings and forums.

Occupations in this sub-major group are classified into the following minor groups:

- 131 Production managers in agriculture, forestry and fisheries
- 132 Manufacturing, mining, construction, and distribution managers
- 133 Information and communications technology service managers
- 134 Professional services managers

#### Notes

Specialized qualifications and extensive experience relevant to one or more occupations classified in major group 2, Professionals, or major group 3, Technicians and associate professionals, are usually required.

### **131 Production managers in agriculture, forestry and fisheries**

Production managers in agriculture, forestry and fisheries plan, direct, and coordinate production in large scale agricultural, horticultural, forestry aquaculture and fishery operations such as plantations, large ranches, collective farms and co-operatives to grow and harvest crops, breed and raise livestock, fish and shellfish and to catch and harvest fish and other forms of aquatic life

Tasks performed usually include: monitoring market activity and planning production to meet contract requirements and market demand; establishing and managing budgets, monitoring production output and costs, recording information such as farm and fisheries management practices, and preparing financial and operational reports; conferring with buyers to arrange for the sale of crops, catch and stock; contracting with farmers, skippers or independent owners for production of produce and management of production; planning the type, intensity and sequence of operations; purchasing machinery, equipment, and supplies; identifying and controlling environmental toxins, weeds, pests and diseases; organizing operations such as maintaining buildings, water supply systems and equipment; overseeing the selection, training and performance of workers and contractors.

Occupations in this minor group are classified into the following unit groups:

- 1311 Agricultural and forestry production managers
- 1312 Aquaculture and fisheries production managers

#### **1311 Agricultural and forestry production managers**

Agricultural and forestry production managers plan, direct, and coordinate production in large scale agricultural, horticultural and forestry operations such as plantations, large ranches, collective farms and agricultural cooperatives to grow and harvest crops, and breed and raise livestock.

Tasks include -

- (a) monitoring agricultural and forestry market activity and planning production to meet contract requirements and market demand;
- (b) establishing and managing budgets, monitoring production output and costs, recording information such as farm management practices, and preparing financial and operational reports;
- (c) conferring with buyers to arrange for the sale of crops and livestock;



- (d) contracting with farmers or independent owners for production of crops and livestock, or for management of production;
- (e) planning the type, intensity and sequence of farm operations (e.g. determining the best times for planting, spraying and harvesting);
- (f) analyzing soil to determine types and quantities of fertilizer required for maximum production;
- (g) purchasing machinery, equipment, and supplies such as tractors, seed, fertilizer, and chemicals;
- (h) identifying and controlling agricultural and forest environmental toxins, weeds, pests and diseases;
- (i) organizing farming operations such as maintaining buildings, water supply systems and equipment;
- (j) directing and coordinating activities such as planting, irrigation, chemical application, harvesting, and grading;
- (k) inspecting plantations and fields to determine maturity dates of crops, or to estimate potential crop damage from weather;
- (l) overseeing the selection, training and performance of agricultural and forestry workers and contractors.

Examples of the occupations classified here:

- Forestry manager
- Plantation manager

### **1312 Aquaculture and fisheries production managers**

aquaculture and fisheries production managers plan, direct, and coordinate production in large scale aquaculture and fishery operations to catch and harvest fish and shellfish, and to grow fish shellfish or other forms of aquatic life, as cash crops or for release into freshwater or saltwater.

Tasks include -

- (a) monitoring aquaculture and fishery market activity and planning production and fishing activities to meet contract requirements and market demand;
- (b) establishing and managing budgets, monitoring production output and costs, recording information such as fisheries management practices, and preparing financial and operational reports;
- (c) conferring with buyers to arrange for the sale of produce and catches;
- (d) contracting with fishing skippers or owners of vessels and aquaculture farms for fishing and aquaculture operations, or for management of production;
- (e) conducting and organizing aquaculture or fishery stock examinations in order to identify diseases or parasites;
- (f) devising and coordinating activities to improve fish hatching and growth rates, and to prevent disease in hatcheries;
- (g) monitoring environments to maintain or improve conditions for aquatic life;
- (h) directing and monitoring trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques;
- (i) coordinating the selection and maintenance of brood stock;
- (j) directing and monitoring the transfer of mature fish to lakes, ponds, streams, or commercial tanks;
- (k) purchasing machinery, equipment, and supplies such as vessels and nets;
- (l) organizing operations such as maintenance of ships, boats and equipment;
- (m) overseeing the selection, training and performance of aquaculture or fishery workers and contractors.

Examples of the occupations classified here:

- Aquaculture production manager
- Fishing operations manager
- Shore captain (fishing)
- Trawler manager

Some related occupations classified elsewhere:

- Fish farmer - 6221
- Fish hatchery manager - 6221
- Oyster Farmer - 6221
- Seafood Farmer - 6221
- Fishing vessel skipper (coastal waters) - 6222
- Fishing master (deep sea) – 6223

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>13</b>	<b>Sub-major Group</b>	<b>Production and specialised services managers</b>
<b>131</b>	<b>Minor Group</b>	<b>Production managers in agriculture, forestry and fisheries</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1311</b>		<b>Agricultural and forestry production managers</b>
	13111	Department -manager, production and operations (agriculture)
	13112	Department-manager, production and operations (forestry)
	13113	Department -manager, production and operations (hunting)
	13114	Manager, plantation/Manager, ranch
<b>1312</b>		<b>Aquaculture and fisheries production managers</b>
	13121	Department-manager, production and operations (fishing)
	13122	Aquaculture production manager/ <b>Manager aquaculture , Fish hatchery, Manager, trawler</b>
	13123	Fishing operations manager
	13124	Captain, shore: fishing

### **132 Manufacturing, mining, construction, and distribution managers**

Manufacturing, mining, construction, and distribution managers plan, organize, and coordinate the manufacturing, mineral extraction, construction, supply, storage and transportation operations.

Tasks performed usually include: planning details of activities in terms of output quality and quantity, cost, timeliness and labour requirements; controlling the operation of plant and quality procedures through planning of maintenance, designation of operating hours and supply of equipment; preparing tenders and contract bids; establishing and managing budgets, monitoring production output and costs, and adjusting processes and resources to minimize costs; overseeing the acquisition and installation of new plant and equipment; controlling the preparation of production records and reports; coordinating the implementation of health and safety requirements; planning and directing daily operations; overseeing the selection, training and performance of staff.

Occupations in this minor group are classified into the following unit groups:

- 1321 Manufacturing managers
- 1322 Mining managers
- 1323 Construction managers
- 1324 Supply, distribution and related managers

### **1321 Manufacturing managers**

Manufacturing managers plan, direct, and coordinate manufacturing production activities of large enterprises or as the manager of a small manufacturing company.

Tasks include -

- (a) determining, implementing and monitoring production strategies, policies and plans;
- (b) planning details of production activities in terms of output quality and quantity, cost, time available and labour requirements;
- (c) controlling the operation of production plant and quality procedures through planning of maintenance, designation of operating hours and supply of parts and tools;
- (d) establishing and managing budgets, monitoring production output and costs, and adjusting processes and resources to minimize costs;
- (e) consulting with and informing other managers about production matters;
- (f) overseeing the acquisition and installation of new plant and equipment;
- (g) controlling the preparation of production records and reports;
- (h) coordinating the implementation of occupational health and safety requirements;
- (i) identifying business opportunities and determining products to be manufactured;
- (j) researching and implementing regulatory and statutory requirements affecting manufacturing operations and the environment;
- (k) overseeing the provision of quotes for the manufacture of specialized goods and establishing contracts with customers and suppliers;
- (l) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Manufacturer
- Manufacturing manager
- Production and operations manager (manufacturing)

Some related occupations classified elsewhere:

- Production supervisor (manufacturing ) – 3122

### **1322 Mining managers**

Mining managers plan, direct, and coordinate the production activities of mining, quarrying and oil and gas extraction operations.

Tasks include -

- (a) conferring with other managers to set production quotas, plan extraction sites and develop policies for the removal of raw materials;
- (b) evaluating efficiency of production sites to determine adequacy of personnel, equipment and technologies used, and make changes to work schedule or equipment when necessary;
- (c) planning details of production activities in terms of output quality and quantity, cost, time available and labour requirements;
- (d) controlling the operation of plant and quality procedures through planning of maintenance, designation of operating hours and supply of equipment;
- (e) establishing and managing budgets, monitoring production output and costs, and adjusting

- processes and resources to minimize costs;
- (f) overseeing the acquisition and installation of new plant and equipment;
- (g) controlling the preparation of production records and reports;
- (h) coordinating the implementation of health and safety requirements;
- (i) researching and implementing regulatory and statutory requirements affecting mineral extraction operations and the environment;
- (j) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Mine manager
- Production manager (mine)
- Production manager (oil and gas extraction)
- Production manager (quarry)
- Quarry manager

Some related occupations classified elsewhere:

- Mine deputy - 3121
- Mine supervisor - 3121
- Mine under-manager - 3121
- Quarry supervisor – 3121

### **1323 Construction managers**

Construction managers plan, direct and coordinate the construction of civil engineering projects, buildings and dwellings.

Tasks include -

- (a) interpreting architectural drawings and specifications;
- (b) coordinating labour resources, and procurement and delivery of materials, plant and equipment;
- (c) negotiating with building owners, property developers and subcontractors involved in the construction process to ensure projects are completed on time and within budget;
- (d) preparing tenders and contract bids;
- (e) operating and implementing coordinated work programs for sites;
- (f) ensuring adherence to building legislation and standards of performance, quality, cost and safety;
- (g) arranging submission of plans to local authorities;
- (h) building under contract, or subcontracting specialized building services;
- (i) arranging building inspections by relevant authorities;
- (j) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (k) overseeing the selection, training and performance of staff and subcontractors;

Examples of the occupations classified here:

- Construction project manager
- Project builder

Some related occupations classified elsewhere:

- Building construction supervisor - 3123
- House builder – 7111

### **1324 Supply, distribution and related managers**

Supply, distribution and related managers plan, direct and coordinate the supply, transportation, storage and distribution of goods.

Tasks include -

- (a) determining, implementing and monitoring purchasing, storage and distribution strategies, policies and plans;
- (b) preparing and implementing plans to maintain required stock levels at minimum cost;
- (c) negotiating contracts with suppliers to meet quality, cost and delivery requirements;
- (d) monitoring and reviewing storage and inventory systems to meet supply requirements and control stock levels;
- (e) operating recording systems to track all movements of goods, and ensuring re-ordering and re-stocking at optimal times;
- (f) liaising with other departments and customers concerning requirements for outward goods and associated forwarding transportation;
- (g) overseeing the recording of purchase, storage and distribution transactions;
- (h) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (i) establishing and directing operational and administrative procedures;
- (j) planning and directing daily operations;
- (k) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Logistics manager
- Railway station master
- Supply and distribution manager
- Supply chain manager
- Transport company manager
- Warehouse manager

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>13</b>	<b>Sub-major Group</b>	<b>Production and specialised services managers</b>
<b>132</b>	<b>Minor Group</b>	<b>Manufacturing, mining, construction, and distribution managers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>1321</b>		<b>Manufacturing managers</b>
	13211	Chief-manager/ General-manager, manufacturing
	13212	Manager, regional (manufacturing)
	13213	Manager, production/operations (electrical equipment manufacturing, installation and repairing)
	13214	Manager, production/ operations (fabrication of products of paper, plastic etc.)
	13215	Manager, production/operations (glass and ceramics manufacturing)
	13216	Manager, production/operations (manufacturing of machinery and metal products)
	13217	Director, power station/Manager, general: manufacturing/Manager, plant: power generation/Manager, power station
	13218	Manager( production and operations: manufacturing/ production: chemicals/ production: gas supply/ production: oil refinery/ production: petroleum refinery/ production: power generation/ production: waste management/ production: water supply and treatment/Manufacturer

Unit Group	Sub-Unit Group	Description
<b>1322</b>		<b>Mining managers</b>
	13221	General-manager / Chief-manager (Mining)
	13222	Mine manager
	13223	Production manager (mine)
	13224	Production manager (oil and gas extraction)
	13225	Production manager (quarry)
	13226	Controller, production: mining/(Manager, metallurgy/ offshore installation: oil or gas/ operations: mining/ plant: mining processing: mining/ works: mining)
<b>1323</b>		<b>Construction managers</b>
	13231	General-manager / Chief-manager (Construction)
	13232	Manager, regional (Construction)
	13233	Department -manager, production and operations (construction)
	13234	Contractor, construction
	13235	Builder, project/Contractor, building: project management/Manager, project: civil engineering/Manager, project: construction/Manager demolition
<b>1324</b>		<b>Supply, distribution and related managers</b>
	13241	General-manager / Department-manager, production and operations (transport), Manager, warehousing company
	13242	Branch-manager, road transport/ transport operations department/ Officer (chief), traffic/ transportation
	13243	Manager (assistant)/ Superintendent (deputy), (airport)/ Superintendent, maintenance (air transport)
	13244	Station master, railway / Inspector, commercial (railways)
	13245	Manager, freight traffic department/ Manager, harbor/dock/wharf department/ Superintendent, stevedoring
	13246	General-manager / Department -manager, production and operations (storage)/ warehouse/ stores
	13247	Department -manager, production and operations (communications)
	13248	Department -manager, distribution/ supplies/ bulk plant/ purchasing/Director, logistics/ Manager, air ramp/Manager, airport operations/Manager, bus station/Manager, courier service/Manager, flight operations/Manager, imports/Manager, imports and exports/Manager, logistics/Manager, mail operations/Manager, metropolitan railway station/Manager, postal service/Manager, railway station/Manager, traffic/Manager, transport/Manager, transport company/Manager, urban transit system/Postmaster/Superintendent, rail operations/ Manager, procurement / commercial, <b>Captain, stores, shore shipping.</b>

### **133 Information and communications technology service managers**

Information and communications technology service managers plan, direct, and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems.

Tasks usually include:

Consulting with users, management, vendors, and technicians to assess computing needs and system requirements and specifying technology to meet those needs; formulating and directing information and communication technology (ICT) strategies, policies and plans; directing the selection and installation of ICT resources and the provision of user training; directing ICT operations, analyzing workflow, establishing priorities, developing standards and setting deadlines; overseeing the security of ICT systems; assigning, reviewing, managing and leading the work of systems analysts, programmers, and other computer-related workers; evaluating the organization's technology use and needs and recommending improvements, such as hardware and software upgrades; establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources; establishing and directing operational and administrative procedures; overseeing the selection, training and performance of staff; representing the enterprise or organization at ICT related conventions, seminars and conferences.

Occupations in this minor group are classified into the following unit groups:

1330 Information and communications technology service managers

### **1330 Information and communications technology service managers**

Information and communications technology service managers plan, direct, and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems.

Tasks include -

- (a) consulting with users, management, vendors, and technicians to assess computing needs and system requirements and specifying technology to meet those needs;
- (b) formulating and directing information and communication technology (ICT) strategies, policies and plans;
- (c) directing the selection and installation of ICT resources and the provision of user training;
- (d) directing ICT operations, analyzing workflow, establishing priorities, developing standards and setting deadlines;
- (e) overseeing the security of ICT systems;
- (f) assigning, reviewing, managing and leading the work of systems analysts, programmers, and other computer-related workers;
- (g) evaluating the organization's technology use and needs and recommending improvements, such as hardware and software upgrades;
- (h) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (i) establishing and directing operational and administrative procedures;
- (j) overseeing the selection, training and performance of staff;
- (k) representing the enterprise or organization at ICT related conventions, seminars and conferences.

Examples of the occupations classified here:

- Application development manager
- Chief information officer
- Data operations manager
- Data processing manager
- ICT development manager
- Information systems director
- Information technology manager (IT Manager)
- Internet service provider
- Network manager



<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>13</b>	<b>Sub-major Group</b>	<b>Production and specialised services managers</b>
<b>133</b>	<b>Minor Group</b>	<b>Information and communications technology service managers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>1330</b>		<b>Information and Communications technology managers</b>
	13301	Department -manager, production and operations (communications)
	13302	Department-manager, computing services
	13303	General-manager /Executive, information technology
	13304	General-manager (assistant) , telecommunications
	13305	Manager, circulations
	13306	Data processing /operations manager
	13307	Manager, Network/ Internet service provider/Director, information systems/Manager, application development/Manager, computer systems/Manager, ICT development/Manager, internet: department/Manager, internet: managing business/Manager, ISP/Manager, operations: computer systems/Manager, systems development/Officer, chief information/Officer, chief technology
	13308	Manager, Communication and Information technology (not elsewhere classified)

#### **134 Professional services managers**

Professional services managers plan, direct and coordinate the provision of childcare, health, welfare, education and other professional services, and manage the branches of institutions providing financial and insurance services.

Tasks usually include:

formulating policies and plans for the provision of services and operation of establishments; setting standards and objectives; developing and implementing programs and services to meet the needs of clients; directing and coordinating the allocation of resources; liaising with parents, boards, funding bodies, the community representatives and related agencies to discuss areas of cooperation and coordination; monitoring and controlling expenditure; overseeing the selection, development and performance of staff; preparing, or arranging for the preparation of, reports, budgets and forecasts; representing the organization in negotiations other agencies, and at conventions, seminars, public hearings and forums.

Occupations in this minor group are classified into the following unit groups:

- 1341 Child care services managers
- 1342 Health services managers
- 1343 Aged care services managers
- 1344 Social welfare managers
- 1345 Education managers
- 1346 Financial and insurance services branch managers



## 1349 Professional services managers not elsewhere classified

### Notes

Professional services managers are responsible for planning, directing and coordinating the provision of specialized professional and technical services. Specialized qualifications and extensive experience relevant to one or more occupations classified in major group 2, Professionals, or major group 3, Technicians and associate professionals, are usually required.

### 1341 Child care service managers

Child care service managers plan, direct, and coordinate and evaluate the provision of care for children in before-school, after-school, vacation and day care centres and services.

Tasks include -

- (a) developing and implementing programs to enhance the physical, social, emotional and intellectual development of young children;
- (b) establishing and monitoring budgets and determining allocation of funds for staff, supplies, materials, equipment and maintenance;
- (c) overseeing and coordinating the provision care for children in before-school, after-school, day, and vacation care centres;
- (d) directing and supervising child cares in providing care and supervision for young children;
- (e) managing physical facilities and making sure all buildings and equipment are maintained to ensure the centre is a safe area for children, staff and visitors;
- (f) reviewing and interpreting government codes, and developing procedures to meet codes (e.g., concerning safety and security);
- (g) monitoring children's progress and conferring with parents or guardians;
- (h) preparing and maintaining records and accounts for a child care centre;
- (i) recruiting and evaluating staff and coordinating their professional development.

Examples of the occupations classified here:

- Child Care Centre Manager

### 1342 Health service managers

Health service managers plan, direct coordinate and evaluate the provision of clinical and community health care services in hospitals, clinics, public health agencies and similar organizations.

Tasks include -

- (a) providing overall direction and management for the service, facility, organization or centre;
- (b) directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance, and other personnel;
- (c) establishing objectives and evaluative or operational criteria for units they manage;
- (d) directing or conducting recruitment, hiring and training of personnel;
- (e) developing, implementing and monitoring procedures, policies and performance standards for medical, nursing, technical and administrative staff;
- (f) monitoring the use of diagnostic services, inpatient beds, facilities, and staff to ensure effective use of resources and assess the need for additional staff, equipment, and services;
- (g) controlling administrative operations such as budget planning, report preparation and expenditure on supplies, equipment and services;
- (h) liaising with other health and welfare service providers, boards and funding bodies to coordinate the provision of services;
- (i) advising government bodies about measures to improve health and welfare services and facilities;
- (j) representing the organization in negotiations, and at conventions, seminars, public hearings and forums.

Examples of the occupations classified here:

- Clinical director
- Community health care coordinator
- Director of nursing
- Hospital matron
- Medical administrator

Some related occupations classified elsewhere:

- Aged care service manager – 1343

### **1343 Aged care service managers**

Aged care service managers plan, direct coordinate and evaluate the provision of residential and personal care services for individuals and families who are in need of such services due to the effects of ageing.

Tasks include -

- (a) providing overall direction and management for a service, facility, organization or centre;
- (b) directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance, and other personnel;
- (c) establishing objectives and evaluative or operational criteria for units they manage;
- (d) directing or conducting recruitment, hiring and training of personnel;
- (e) developing, implementing and monitoring procedures, policies and performance standards for nursing, personal care, technical, and administrative staff;
- (f) coordinating and administering welfare programs and care services for the elderly;
- (g) controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services;
- (h) liaising with other health and welfare providers, boards and funding bodies to coordinate the provision of services;
- (i) advising government bodies about measures to improve health and welfare services and facilities;
- (j) representing the organization in negotiations, and at conventions, seminars, public hearings and forums.

Examples of occupations classified here:

- Aged care home director
- Community aged care coordinator
- Nursing home director
- Retirement village coordinator

Some related occupations classified elsewhere:

- Health service manager – 1342

### **1344 Social welfare managers**

Social welfare managers plan, direct, and coordinate the provision of social and community service programs such as income support, family assistance, children's services and other community programs and services.

Tasks include -

- (a) providing overall direction and management for a service, facility, organization or centre;
- (b) developing, implementing and monitoring procedures, policies and standards for staff;
- (c) monitoring and evaluating resources devoted to the provision of welfare, housing, and other social services;
- (d) controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services;

- (e) liaising with other welfare and health services providers, boards and funding bodies to discuss areas of health and welfare service cooperation and coordination;
- (f) advising government bodies about measures to improve welfare services and facilities;
- (g) representing the organization in negotiations, and at conventions, seminars, public hearings and forums;
- (h) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (i) establishing and directing operational and administrative procedures;
- (j) overseeing the selection, training and performance of staff;
- (k) representing the organization at conventions, seminars and conferences.

Examples of the occupations classified here:

- Community centre manager
- Family services manager
- Housing services manager
- Welfare Centre Manager

### **1345 Education managers**

Education managers plan, direct, coordinate and evaluate the educational and administrative aspects of education services, primary and secondary schools, colleges and faculties and departments in universities and other educational institutions.

Tasks include -

- (a) determining educational programs based on frameworks established by education authorities and governing bodies;
- (b) implementing systems and procedures to monitor school performance and student enrolments;
- (c) directing administrative and clerical activities concerning student admissions and educational services;
- (d) controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services;
- (e) providing leadership and guidance to teaching, academic and administrative staff as well as to students;
- (f) evaluating the work of teachers and lecturers by visiting classrooms, observing teaching methods, reviewing instructional objectives and examining learning materials;
- (g) promoting the educational program, and representing the service or institution in the wider community;
- (h) supervising the maintenance of educational facilities;
- (i) developing and enforcing a disciplinary code to create a safe and conducive environment for students and teachers;
- (j) organizing and implementing methods of raising additional funds in conjunction with parent and community groups and sponsors;
- (k) controlling selection, training and supervision of staff.

Examples of the occupations classified here:

- School Principal

### **1346 Financial and insurance services branch managers**

Financial and insurance services branch managers plan, direct, and coordinate the branches of institutions that provide financial and insurance services, such as banks, building societies, credit unions and insurance companies. They provide advice and assistance to clients on financial and insurance matters.

Tasks include

- (a) planning, directing and coordinating the activities of staff in the branch;
- (b) establishing and maintaining relationships with individual and business customers;

- (c) providing advice and assistance to customers on their financial and insurance needs and with matters such as changes in law that may affect customers;
- (d) examining, evaluating and processing loan and insurance applications;
- (e) monitoring credit extension decisions;
- (f) conducting financial investigations;
- (g) overseeing the flow of cash and financial instruments, and the preparation of financial and regulatory reports;
- (h) approving or rejecting, or coordinating the approval or rejection of, lines of credit commercial, real estate and personal loans;
- (i) coordinating cooperation with other branches of the company;
- (j) managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (k) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Bank manager
- Building society manager
- Credit union manager,
- Insurance agency manager

Some related occupations classified elsewhere:

- Finance manager - 1211
- Credit and loans officer - 3312
- Insurance agent – 3321

#### **1349 Professional services managers not elsewhere classified**

This unit group covers managers who plan, direct coordinate and evaluate the provision of specialized professional and technical services and are not classified in sub-major group 12, Business services and administration managers, or elsewhere in sub-major group 13, Professional services managers. For instance, managers responsible for the provision of policing, corrective, library, legal and fire services are classified here. In such cases

Tasks would include:

- (a) providing overall direction and management for a service, facility, organization or centre;
- (b) developing, implementing and monitoring procedures, policies and standards for staff;
- (c) directing, supervising and evaluating the work activities of professional technical, clerical, service, maintenance, and other personnel;
- (d) monitoring and evaluating resources devoted to the provision of services;
- (e) controlling administrative operations such as budget planning, report preparation, expenditure on supplies, equipment and services;
- (f) planning, directing and coordinating the provision of services;
- (g) coordinating cooperation with other service provision agencies in the same or related fields;
- (h) managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (i) overseeing the selection, training and performance of staff.

Examples of the occupations classified here:

- Archives manager
- Art gallery manager
- Correctional services manager
- Legal service manager,
- Library manager
- Museum manager
- Police superintendent
- Prison governor

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>13</b>	<b>Sub-major Group</b>	<b>Production and specialised services managers</b>
<b>134</b>	<b>Minor Group</b>	<b>Professional services managers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1341</b>		<b>Child care service managers</b>
	13411	Manager, child care services
	13412	Manager, child day care centers
	13413	Manager, child safety planners
	13414	Director, after school care/Director, children's services/Licensee, childcare centre/Manager, care: out of school hours/Manager, children's services/Manager, crèche/Manager, kindergarten/Manager, nursery: childcare/Manager, playgroup, <b>Manager children's services</b>
<b>1342</b>		<b>Health service managers</b>
	13421	General-manager, health/ Manager, health facility/Manager health service, <b>Administrator (assistant) hospital</b>
	13422	Department -manager, production and operations (health)
	13423	Matron(health)
	13424	Director of nursing/ Superintendent, nursing (asst)/ Coordinator, community health care/Director, clinical/Director, health facility/Director, health service
	13425	Director, administration (health)/ Medical Administrator/ <b>Administrator</b>
	13426	Officer, Chief clinical/Officer, chief public health Officer, clinical: chief/Officer, nursing: principal/Officer, principal nursing/Officer, public health: chief
<b>1343</b>		<b>Aged care service managers</b>
	13431	Manager, aged care centers
	13432	Manager services, aged cares
	13433	Coordinator, community aged care/Coordinator, retirement village/Director, home: aged care/Manager, aged care/Manager, care: nursing home/Manager, cottage: aged care/Manager, facility: aged care/Manager, hostel: aged care/Manager, lodge: aged care/Manager, nursing home/Manager, residential care: nursing home/Matron, nursing home facility
<b>1344</b>		<b>Social welfare managers</b>
	13441	Department -manager, production and operations (social work)
	13442	General-manager, social work
	13443	Welfare center manager
	13444	Community center manager
	13445	Family services manager
	13446	Manager, cottage: welfare services/Manager, facility: welfare services/Manager, hostel: welfare services/Manager, housing services/Manager, lodge: welfare services

Unit Group	Sub-Unit Group	Description
<b>1345</b>		<b>Education managers</b>
	13451	Department-manager, production and operations (education)
	13452	Dean / Academic, university: head of department or faculty/Head-teacher/Manager, department: education/Manager, general: education
	13453	Director, student affairs
	13454	Head, college faculty
	13455	Head, university faculty
	13456	Headmaster/mistress, kindergarten
	13457	Headmaster/mistress, primary school
	13458	Superintendent, vaccine institute/Director, school /College/ Principal (Vice), School/college/ university
<b>1346</b>		<b>Financial and insurance services branch managers</b>
	13461	Manager, insurance
	13462	Planner, estate (insurance)
	13463	Branch-manager, financial institution
	13464	Branch manager (assistant), bank
	13465	Credit Union Manager
	13466	Branch manager, Insurance agency
	13467	Director bank, manager, branch, building society, manager, credit union.
<b>1349</b>		<b>Professional services managers not elsewhere classified</b>
	13491	Art gallery manager
	13492	Library manager
	13493	Museum manager
	13494	Archive Manager
	13495	Legal services manager
	13496	Manager Professional services/Director, design service/Governor, prison/Librarian, chief/Manager( archives/ correctional services/ corrective services/ department: cultural activities/ department: recreation/ department: sporting activities/ design service service/ emergency services/ fire services/ flight safety laboratory/publishing/Publisher)
	13497	Officer, immigration: chief
	13499	Manager professional n.e.c

#### Notes

Professional services managers are responsible for planning, directing and coordinating the provision of specialized professional and technical services. Specialized qualifications and extensive experience relevant to one or more occupations classified in major group 2, Professionals, or major group 3, Technicians and associate professionals, are usually required.

#### 14 Hospitality, retail and other services managers

Hospitality, shop and related services managers plan, organize and direct the operations of establishments which provide accommodation, hospitality, retail and other services.

Tasks performed by workers in this sub-major group usually include:

Planning and organizing special functions, sporting, gaming and entertainment activities and the range and mix of products, stock levels and service standards; promoting and selling goods and services; observing liquor, gaming, health and other laws and regulations; developing and reviewing policies, programs and procedures concerning customer relations and goods and services provided; promoting facilities, for conferences, conventions and trade shows, to potential customers; organizing the purchase and maintenance of transport vehicles, equipment and fuel, and transporting goods; controlling the selection, training and supervision of staff; ensuring compliance with occupational health and safety regulations.

Occupations in this sub-major group are classified into the following minor groups:

- 141 Hotel and restaurant managers
- 142 Retail and wholesale trade managers
- 143 Other services managers

**Notes**

Sub-major group 14 Hospitality, shop and related managers is for managers of establishments that provide services directly to the public, usually in organizations that are too small to have hierarchies of managers. Managers responsible for planning, directing and coordinating the provision of specialized professional and technical services that usually require specialized qualifications are classified in various unit groups in Sub-major groups 12, Administrative and commercial managers and 13, Production and specialized services managers.

## **141 Hotel and restaurant managers**

Hotel and restaurant managers plan, organize and direct the operations of establishments that provide accommodation, meals, beverages and other hospitality services.

Tasks performed usually include:

Planning and organizing special functions, sporting, gaming and entertainment activities; directing and overseeing reservation, reception, room service and housekeeping activities; observing liquor, gaming, health and other laws and regulations; monitoring quality at all stages of preparation and presentation of food and services; controlling the selection, training and supervision of staff; ensuring compliance with occupational health and safety regulations

Occupations in this minor group are classified into the following unit groups:

- 1411 Hotel managers
- 1412 Restaurant managers

### **1411 Hotel managers**

Hotel managers plan, organize and direct the operations of hotels, motels and similar establishments to provide guest accommodation and other services.

Tasks include -

- (a) directing and overseeing reservation, reception, room service and housekeeping activities;
- (b) supervising security arrangements, and garden and property maintenance;
- (c) planning and supervising bar, restaurant, function and conference activities;
- (d) observing liquor, gaming, and other laws and regulations;
- (e) assessing and reviewing customer satisfaction;
- (f) overseeing accounting and purchasing activities;
- (g) undertaking budgeting for the establishment;



- (h) controlling selection, training and supervision of staff;
- (i) ensuring compliance with occupational health and safety regulations;
- (j) providing guests with local tourism information, and arranging tours and transportation.

Examples of the occupations classified here:

- Hotel manager
- Motel manager
- Youth hostel manager

Some related occupations classified elsewhere:

- Bed and breakfast operator - 5152

#### Notes

Operators of small establishments, such as some bed and breakfast establishments and small guest houses, that provide accommodation and limited meal services to clients effectively as paying guests in private households, and for whom the management and supervision of staff is not a significant component of the work, are classified in unit group 5152, Domestic housekeepers. Chief executive officers and specialized managers of large hotel management companies or hotel chains are classified in the relevant unit group in sub-major groups 11 and 12.

## 1412 Restaurant managers

Restaurant managers plan, organize and direct the operations of cafes, restaurants and related establishments to provide dining and catering services.

Tasks include -

- (a) planning menus in consultation with chefs and cooks;
- (b) planning and organizing special functions;
- (c) arranging the purchasing and pricing of goods according to budget;
- (d) maintaining records of stock levels and financial transactions;
- (e) ensuring dining, kitchen and food storage facilities comply with health regulations and are clean, functional and of suitable appearance;
- (f) conferring with customers to assess their satisfaction with meals and service;
- (g) selecting, set staff work schedules, training and supervising waiting and kitchen staff;
- (h) taking reservations, greeting guests and assisting in taking orders;
- (i) negotiating arrangements with clients and suppliers;
- (j) ensuring compliance with occupational health and safety regulations.

Examples of the occupations classified here:

- Cafe Manager
- Restaurant Manager
- Catering Manager

Some related occupations classified elsewhere:

- Chef – 3434



<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>14</b>	<b>Sub-major Group</b>	<b>Hospitality, retail and other services managers</b>
<b>141</b>	<b>Minor Group</b>	<b>Hotel and restaurant managers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1411</b>		<b>Hotel managers</b>
	14111	Department -manager, production and operations (hotel)
	14112	General-manager/ Manager, boarding-house/ hostel
	14113	General-manager/ Manager, guest-house/ lodging-house
	14114	General-manager/ Manager, hotel /inn/ motel
	14115	Innkeeper
	14116	Proprietor (working), guest house/ hotel/ motel
	14117	Superintendent, hostel/matron school
	14118	General-manager/ Proprietor , camping site/ caravan park
<b>1412</b>		<b>Restaurant managers</b>
	14121	Department-manager, production and operations (restaurant)
	14122	Incharge, restaurant
	14123	Manager, kitchen(railway/ flight/ ship) / kitchen (any industry)/ Steward (chief),
	14124	Manager, cafe/ canteen/ restaurant (self-service)/ snack-bar
	14125	Incharge, canteen
	14126	Proprietor (working), restaurant/cafe bar/ canteen/ snack bar
	14127	Restaurateur

## **142 Retail and wholesale trade managers**

Retail and wholesale trade managers plan, organize, coordinate and control the operations of establishments that sell goods on a retail or wholesale basis. They are responsible for the budgets, staffing and strategic and operational direction of shops, or of organizational units within shops that sell particular types of product.

### **Tasks usually include:-**

Determining product mix, stock levels and service standards; formulating and implementing purchasing and marketing policies, and setting prices; promoting and advertising the establishment's goods and services; maintaining records of stock levels and financial transactions; undertaking budgeting for the establishment; controlling selection, training and supervision of staff; ensuring compliance with occupational health and safety regulations.

Occupations in this minor group are classified into the following unit groups:

### **1420 Retail and wholesale trade managers**

#### **Notes**

Retail and wholesale trade managers are frequently employed in relatively small establishments that do not have a hierarchy of managers. The managers of large retail establishments such as supermarkets and department stores, however, should also be classified in this group, although such establishments may have a hierarchy of managers and supervisors. General managers of groups of establishments such as supermarket or department store chains are classified, however, in Unit group 1120, Managing directors and chief executives. Operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221,

Shopkeepers. Staff who control and direct the activities of shop sales assistants, checkout operators and other workers, but who do not take responsibility for determining product mix, overall setting of prices, budgets and staffing levels, selection and recruitment are classified in Unit group 5222, Shop supervisors.

## **1420 Retail and wholesale trade managers**

Retail and wholesale trade managers, plan, organize, co-ordinate and control the operations of establishments that sell goods on a retail or wholesale basis. They are responsible for the budgets, staffing and strategic and operational direction of shops, or of organizational units within shops that sell particular types of product.

Tasks include -

- (a) determining product mix, stock levels and service standards;
- (b) formulating and implementing purchasing and marketing policies, and setting prices;
- (c) promoting and advertising the establishment's goods and services;
- (d) maintaining records of stock levels and financial transactions;
- (e) undertaking budgeting for the establishment;
- (f) controlling selection, training and supervision of staff;
- (g) ensuring compliance with occupational health and safety regulations.

Examples of occupations classified here:

- Retail manager
- Supermarket manager
- Grocery manager
- Shop manager

Some related occupations classified elsewhere:

- Sales manager - 1221
- Shopkeeper - 5221
- Shop supervisor - 5222
- Shop sales assistant – 5223

### **Notes**

Retail and wholesale trade managers are frequently employed in relatively small establishments that do not have a hierarchy of managers. The managers of large retail establishments such as supermarkets and department stores, however, should generally also be classified in this group, although such establishments may have a hierarchy of managers and supervisors. General managers of groups of establishments such as supermarket or department store chains are classified, however, in Unit group 1120, Managing directors and chief executives. Operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221, Shopkeepers. Staff who control and direct the activities of shop sales assistants, checkout operators and other workers, but who do not take responsibility for determining product mix, overall setting of prices, budgets and staffing levels, selection and recruitment are classified in Unit group 5222, Shop supervisors.

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>14</b>	<b>Sub-major Group</b>	<b>Hospitality, retail and other services managers</b>
<b>142</b>	<b>Minor Group</b>	<b>Retail and wholesale trade managers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1420</b>		<b>Retail and wholesale trade managers</b>
	14201	General-manager / Department-manager/Manager production and operations/Merchant (retail trade)
	14202	General-manager / Department -manager, production and operations (wholesale trade)/ Manager, wholesale trade
	14204	Wholesaler/ Shopkeeper / Merchant / Proprietor (wholesale)/Management/ supervisor
	14205	Manager( chain-store/ discount-store/ supermarket/ department: supermarket/ department store)
	14206	Manager( department: shop/ general: self-service store/ general shop/ grocery/, self-service store/ store: retail
	14207	Dealer, car: managing and supervising staff
	14208	Manager, mail-order store/ Director, franchise/Manager, charity shop/Manager, garden centre /Manager, station, service

### **143 Other services managers**

Other services managers plan, organize, and control the operations of establishments that provide sporting, cultural, recreational, travel, customer contact and other amenity services.

Tasks usually include:

Planning and organizing the range and mix of services or activities provided; ensuring that facilities are kept clean and in good condition; keeping abreast of new trends and developments relevant to the service provided; advising on the facilities available and promoting publicity; checking and keeping custody of all cash receipts and making regular stock checks; establishing and managing budgets; controlling expenditure and ensuring the efficient use of resources; planning and directing daily operations; controlling the selection, supervision and performance of staff; ensuring compliance with health and safety requirements.

Occupations in this minor group are classified into the following unit groups:

- 1431 Sports, recreation and cultural centre managers
- 1439 Services managers not elsewhere classified

### **1431 Sports, recreation and cultural centre managers**

Sports, recreation and cultural centre managers plan, organize, and control the operations of establishments that provide sporting, artistic, theatrical and other recreational and amenity services.

Tasks include -

- (a) planning and organizing the range and mix of entertainment, attractions, cultural activities, and sports and fitness programmes to be offered by the centre;
- (b) ensuring that facilities are kept clean and in good condition;
- (c) keeping abreast of new trends and developments in the creative arts and arranging theatrical productions and performances by bands and orchestras;
- (d) advising on the facilities available and promoting publicity in relation to events, shows and activities;
- (e) checking and keeping custody of all cash receipts and making regular stock checks;
- (f) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- (g) planning and directing daily operations;
- (h) controlling the selection, supervision and performance of staff;
- (i) ensuring compliance with health and safety regulations.

Examples of the occupations classified here:

- Amusement/ theme park manager
- Billiards or pool hall manager
- Casino manager
- Cinema manager
- Leisure centre manager
- Riding school manager
- Sports centre manager
- Theatre manager

Some related occupations classified elsewhere:

- Art gallery manager - 1349
- Museum manager - 1349
- Library manager – 1349

### **1439 Services managers not elsewhere classified**

This unit group covers managers that plan, direct and coordinate the provision of services and are not classified in sub-major group 13, Production and specialized services managers or elsewhere in sub-major group 14, Hospitality, retail and other services managers. For instance, managers of travel agencies, conference centres, contact centres and shopping centres are classified here.

Examples of the occupations classified here:

- Travel agency manager
- Conference centre manager
- Contact centre manager
- Shopping centre manager
- Camp site manager
- Caravan park manager

#### **Notes**

Excluded from this unit group are occupations that involve managing the provision of specialized professional and technical services and require specialized qualifications and experience relevant to one or more occupations classified in major group 2, Professionals, or in major group 3, Technicians and associate professionals. These managerial occupations are classified in various unit groups in Sub-major groups 12, Administrative and commercial managers and 13, Production and specialized services managers.

<b>1</b>	<b>Major Group</b>	<b>Managers</b>
<b>14</b>	<b>Sub-major Group</b>	<b>Hospitality, retail and other services managers</b>
<b>143</b>	<b>Minor Group</b>	<b>Other services managers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>1431</b>		<b>Sports, recreation and cultural centre managers</b>
	14311	Manager, cinema
	14312	General-manager, cultural activities
	14313	General-manager, recreation
	14314	General-manager, sporting activities
	14315	Director, leisure centre/Manager( amusement centre/ amusement park/ billiards hall/casino/ leisure centre/ pool hall riding school/ snooker hall/ swimming pool/ theatre/ theme park
<b>1439</b>		<b>Services managers not elsewhere classified</b>
	14391	General-manager, travel agency
	14392	Department-manager, production and operations (travel agency)/ Manager, information: tourist
	14393	Conference center manager
	14394	Contact center manager
	14395	Shopping center manager
	14396	Manager(camp site/ caravan park/general: camping site/ general: caravan park

## Major Group 2

### Professionals

Professionals increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these activities. Competent performance in most occupations in this major group requires skills at the fourth ISCO skill level.

Tasks performed by professionals usually include:

Conducting analysis and research, and developing concepts, theories and operational methods, and advising on or applying existing knowledge related to physical sciences including mathematics, engineering and technology, and to life sciences including the medical and health services, as well as to social sciences and humanities; teaching the theory and practice of one or more disciplines at different educational levels; teaching and educating handicapped persons; providing various business, legal and social services; creating and performing works of art; providing spiritual guidance; preparing scientific papers and reports. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 21 Science and engineering professionals
- 22 Health professionals
- 23 Teaching professionals
- 24 Business and administration professionals
- 25 Information and communications technology professionals
- 26 Legal, social and cultural professionals

#### 21 Science and engineering professionals

Physical, mathematical and engineering science professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as physics, astronomy, meteorology, chemistry, geophysics, geology, mathematics, statistics, computing, architecture, engineering, and technology.

Tasks performed by workers in this sub-major group usually include:

Conducting research, enlarging, advising on or applying scientific knowledge obtained through the study of structures and properties of physical matter and phenomena, chemical characteristics and processes of various substances, materials and products, and of mathematical, statistical and computing concepts and methods; advising on, designing and directing construction of buildings, towns and traffic systems, or civil engineering and industrial structures, as well as machines and other equipment, and advising on and applying mining methods, and ensuring their optimum use; surveying land and sea and making maps; studying and advising on technological aspects of particular materials, products and processes, and on efficiency of production and work organization; preparing scientific papers and reports. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 211 Physical and earth science professionals
- 212 Mathematicians, actuaries and statisticians
- 213 Life science professionals
- 214 Engineering professionals (excluding electro technology)
- 215 Electro technology engineers
- 216 Architects, planners, surveyors and designers

## **211 Physical and earth science professionals**

Physical and earth science professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics, astronomy, meteorology, chemistry, geology and geophysics.

Tasks performed usually include:

Enlarging scientific knowledge through research and experiments related to mechanics, thermodynamics, optics, Sonics, electricity, magnetism, electronics, nuclear physics, astronomy, various branches of chemistry, atmospheric conditions and the physical nature of the Earth; and advising on or applying this knowledge in such fields as manufacturing, agriculture, medicine, navigation, space exploration, oil, gas, water and mineral exploitation, telecommunications and other services, or civil engineering; preparing scientific papers and reports.

Occupations in this minor group are classified into the following unit groups:

- 2111 Physicists and astronomers
- 2112 Meteorologists
- 2113 Chemists
- 2114 Geologists and geophysicists

### **2111 Physicists and astronomers**

Physicists and astronomers conduct research and improve or develop concepts, theories and operational methods concerning matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena. They apply scientific knowledge relating to physics and astronomy in industrial, medical, military or other fields.

Tasks include -

- (a) conducting research and improving or developing concepts, theories, instrumentation, software and operational methods related to physics and astronomy;
- (b) conducting experiments, tests and analyses on the structure and properties of matter in fields such as mechanics, thermodynamics, electronics, communications, power generation and distribution, aerodynamics, optics and lasers, remote sensing, medicine, Sonics, magnetism, and nuclear physics;
- (c) evaluating results of investigations and experiments and expressing conclusions, mainly using mathematical techniques and models;
- (d) applying principles, techniques and processes to develop or improve industrial, medical, military and other practical applications of the principles and techniques of physics or astronomy;
- (e) ensuring the safe and effective delivery of radiation (ionizing and non-ionizing) to patients to achieve a diagnostic or therapeutic result as prescribed by a medical practitioner;
- (f) ensuring the accurate measurement and characterization of physical quantities used in medical applications;
- (g) testing, commissioning and evaluating equipment used in applications such as imaging, medical treatment and dissymmetry;
- (h) advising and consulting with medical practitioners and other health care professionals in optimizing the balance between the beneficial and deleterious effects of radiation;
- (i) observing, analyzing and interpreting celestial phenomena and developing methods, numerical models and techniques to extend knowledge of fields such as navigation, satellite communication, space exploration, celestial bodies and cosmic radiation;
- (j) developing, implementing and maintaining standards and protocols for the measurement of physical phenomena and for the use of nuclear technology in industrial and medical applications;

- (k) preparing scientific papers and reports.

Examples of the occupations classified here:

- Astronomer
- Medical Physicist
- Nuclear Physicist
- Physicist

Some related occupations classified elsewhere:

- Specialist physician (nuclear medicine) - 2212
- Radiation oncologist - 2212
- Radiologist - 2212
- Radiographer - 3211

#### Notes

It should be noted that, while they are appropriately classified in this unit group with other physicists, medical physicists are considered to be an integral part of the health work force alongside those occupations classified in sub-major group 22, Health professionals and others classified in a number of other unit groups in major group 2, Professionals.

## 2112 Meteorologists

Meteorologists prepare short-term or long-term weather forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public. They conduct research related to the composition, structure and dynamics of the atmosphere.

Tasks include -

- (a) investigating direction and speed of air movements, pressures, temperatures, humidity, physical and chemical transformation of pollutants and other phenomena such as cloud formation and precipitation, electrical disturbances or solar radiation;
- (b) studying data collected from meteorological stations, radar and satellite imagery and computer model output to plot and forecast weather conditions;
- (c) preparing and reporting short-term or long-term weather maps, forecasts and warnings relating to atmospheric phenomena such as cyclones, storms and other hazards to life and property and disseminating information about atmospheric conditions through a variety of media including radio, television, print and the Internet;
- (d) conducting experiments in fog dispersal, cloud seeding, rain enhancement and other types of weather modification programs;
- (e) developing and testing mathematical computer models of weather and climate for experimental or operational use;
- (f) participating in studies of the effect of weather on the environment;
- (g) analyzing the impact of industrial projects and human activity on the climate and quality of the air and work with the social science, engineering and economic communities to develop appropriate mitigation strategies;
- (h) engaging in the design and development of new equipment and procedures for meteorological data collection, remote sensing, or for related applications;
- (i) conducting research on and improving or developing concepts, theories and operational methods related to the composition, structure and dynamics of the atmosphere and preparing scientific papers and reports on the outcome of this research;
- (j) preparing scientific papers and reports.

Examples of the occupations classified here:

- Climatologist
- Hydro meteorologist
- Meteorologist
- Weather forecaster



## **2113 Chemists**

Chemists conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, to develop new knowledge or products and for quality and process control.

Tasks include -

- (a) conducting research and improving or developing concepts, instruments, theories and operational methods related to chemistry;
- (b) conducting experiments, tests and analyses to investigate chemical composition and energy and chemical changes in various natural or synthetic substances, materials and products;
- (c) developing procedures for environmental control, quality control and various other procedures for manufacturers or users;
- (d) conducting programs of sample and data collection and analysis to identify and quantify environmental toxicants;
- (e) participating in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals;
- (f) using micro-organisms to convert substances into new compounds;
- (g) determining ways to strengthen or combine materials or develop new materials.
- (h) reproducing and synthesizing naturally occurring substances and creating new artificial substances;
- (i) preparing scientific papers and reports.

Examples of the occupations classified here:

- Chemist

Some related occupations classified elsewhere:

- Biochemist - 2131
- Pharmacologist - 2131
- Pharmacist – 2262

## **2114 Geologists and geophysicists**

Geologists and geophysicists conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conservation, civil engineering, telecommunications and navigation, and assessment and mitigation of the effects of development and waste disposal projects on the environment.

Tasks include -

- (a) conducting research and improving or developing concepts, theories and operational methods related to geology and geophysics;
- (b) studying composition and structure of the Earth's crust, examining rocks, minerals, fossils and other materials, to determine processes affecting the development of the Earth, trace evolution of past life, establish nature and chronology of geological formations and assess their commercial applications;
- (c) interpreting research data and preparing geological reports, maps, charts and diagrams, reports and papers;
- (d) applying geological knowledge to problems encountered in civil engineering projects such as the construction of dams, bridges, tunnels, and large buildings; and land reclamation projects;
- (e) using various remote sensing programs to investigate and measure seismic, gravitational, electrical, thermal, and magnetic forces affecting the Earth;

- (f) estimating weight, size and mass of the Earth and composition and structure of its interior, and studying the nature, activity and predictability of volcanoes, glaciers and earthquakes;
- (g) charting the Earth's magnetic field and applying this and other collected data for broadcasting, navigation and other purposes;
- (h) studying and measuring physical properties of seas and the atmosphere and their inter-relationship, such as the exchange of thermal energy;
- (i) locating and determining the nature and extent of oil, gas and mineral deposits using seismological, gravimetric, magnetic, electrical or radiometric methods;
- (j) identifying deposits of construction materials and determining their characteristics and suitability for use as concrete aggregates, road fill or for other applications;
- (k) researching the movement, distribution and physical properties of ground and surface waters;
- (l) advising in areas such as waste management, route and site selection and the restoration of contaminated sites.

Examples of the occupations classified here:

- Geological oceanographer
- Geologist
- Geophysical oceanographer
- Geophysicist

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>211</b>	<b>Minor Group</b>	<b>Physical and earth science professionals</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2111</b>		<b>Physicists and astronomers</b>
	21111	Astronomer / Astrophysicist/ Physicist (astronomy/ Aerodynamicist)
	21112	Physicist (atomic / molecular/ nuclear)
	21113	Ballistician / Physicist (ballistics)
	21114	Physicist (electricity and magnetism/ electronics)
	21115	Hydrodynamics / Thermodynamics/ Physicist (heat / hydrodynamics / thermodynamics/ mechanics)
	21116	Physicist (light/ optics/ sound/ acoustics)
	21117	Physicist (rheology) / Rheologist
	21118	Physicist (theoretical / solid-state)
	21119	Physicist, clinical/Physicist, medical/Researcher, physics/ Physicist, general n.e.c
<b>2112</b>		<b>Meteorologists</b>
	21121	Climatologist
	21122	Forecaster, weather
	21123	Hydrographer
	21124	Meteorologist, climatology
	21125	Observer, meteorological
	21126	Hydro meteorologist

Unit Group	Sub-unit Group	Description
<b>2113</b>		<b>Chemists</b>
	21131	Chemist (agriculture/ forest/ biological)
	21132	Chemist, analytical / Chemist, physical
	21133	Chemist, food
	21134	Chemist, glass
	21135	Chemist (industrial alcohols/ inorganic)
	21136	Chemist ( leather/ dye/ paint/ textile)
	21137	Chemist (organic/ petroleum/ plastics/polymer /rubber)
	21138	Chemist/Chemist, pharmaceutical/Chemist, research/Examiner,chemical/ Chemist chief/Crystallographer
	21139	Chemist, other/general .n.e.c
<b>2114</b>		<b>Geologists and geophysicists</b>
	21141	Geologist (any specialism)
	21142	Glaciologist/ Hydrologist / Micropalaeontologist
	21143	Mineralogist
	21144	Oceanographer, geological / Paleontologist
	21145	Pathologist
	21146	Seismologist/ Stratigrapher/ Volcanologist
	21147	Geodesist/ Geomagnetician/ Geomorphologist
	21148	Geophysicist (any specialism)/ Gemmologist/Geochemist/ Geohydrologist/ Geologist, engineering/ Geotechnologist/Hydrogeologist/Hydrometrists

## **212 Mathematicians, actuaries and statisticians**

Mathematicians, actuaries and statisticians conduct research, improve or develop mathematical, actuarial and statistical concepts, theories and operational models and techniques and apply this knowledge to a wide range of tasks in such fields as engineering, business and social and other sciences.

Tasks performed usually include:

Studying, improving and developing mathematical, actuarial and statistical theories and techniques; advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social or life sciences; conducting logical analyzes of management problems, especially in terms of input-output effectiveness, and formulating mathematical models of each problem usually for programming and solution by computer; designing and putting into operation pension schemes and life, health, social and other types of insurance systems; applying mathematics, statistics, probability and risk theory to assess potential financial impacts of future events; planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings, especially in such fields as business or medicine as well as in other areas of natural, social or life sciences; preparing scientific papers and reports; supervising the work of mathematical, actuarial and statistical assistants and statistical clerks.

Occupations in this minor group are classified into the following unit group:

2120 Mathematicians, actuaries and statisticians

## **2120     Mathematicians, actuaries and statisticians**

Mathematicians, actuaries and statisticians conduct research and improve or develop mathematical, actuarial and statistical concepts, theories and operational methods and techniques and advise on or engage in their practical application in such fields as engineering, business and social and other sciences.

- (a) studying, improving and developing mathematical, actuarial and statistical theories and techniques;
- (b) advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social or life sciences;
- (c) conducting logical analyzes of management problems, especially in terms of input-output effectiveness, and formulating mathematical models of each problem usually for programming and solution by computer;
- (d) designing and putting into operation pension schemes and life, health, social and other types of insurance systems;
- (e) applying mathematics, statistics, probability and risk theory to assess potential financial impacts of future events;
- (f) planning and organizing surveys and other statistical collections, and designing questionnaires;
- (g) evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication;
- (h) advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings, especially in such fields as business or medicine as well as in other areas of natural, social or life sciences;
- (i) preparing scientific papers and reports;
- (j) supervising the work of mathematical, actuarial and statistical assistants and statistical clerks.

Examples of the occupations classified here:

- Actuary
- Operations research analyst
- Demographer
- Mathematician
- Statistician

Some related occupations classified elsewhere:

- Actuarial assistant - 3314
- Mathematical assistant - 3314
- Statistical assistant- 3314
- Actuarial clerk - 4312
- Statistical clerk - 4312
- Information systems analyst – 2511

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>212</b>	<b>Minor Group</b>	<b>Mathematicians, actuaries and statisticians</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2120</b>		<b>Mathematicians, actuaries and statisticians</b>
	21201	Mathematician, actuarial science
	21202	Mathematician, pure mathematics
	21203	Mathematician, applied mathematics
	21204	Analyst, operations research/ Actuary
	21205	Demographer / Officer, census
	21206	Officer, statistical
	21207	Officer, survey
	21208	Statistician, /Biometrician/Biostatistician/ Chief Statistician
	21209	Mathematicians, actuaries and statisticians n.e.c

## **213 Life science professionals**

Life science professionals apply knowledge gained from research into human, animal and plant life and their interactions with each other and the environment to develop new knowledge, improve agricultural and forestry production, and solve human health and environmental problems.

Tasks performed usually include:

Collecting, analyzing and evaluating experimental and field data to identify and develop new processes and techniques; providing advice and support to governments, organizations and businesses about ecological sustainable development of natural resources.

Occupations in this minor group are classified into the following unit groups:

- 2131 Biologists, botanists, zoologists and related professionals
- 2132 Farming, forestry and fisheries advisers
- 2133 Environmental protection professionals

### **2131 Biologists, botanists, zoologists and related professionals**

Biologists, botanists, zoologists and related professionals study living organisms and their interactions with each other and with the environment, and apply this knowledge to solve human health and environmental problems. They work in diverse fields such as botany, zoology, ecology, marine biology, genetics, immunology, pharmacology, toxicology, physiology, bacteriology and virology.

Tasks performed usually include:

- (a) undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to test hypotheses; to solve problems in areas such as the environment, agriculture and health; and to develop new products, processes and techniques for pharmaceutical, agricultural and environmental use;
- (b) designing and conducting experiments and tests;
- (c) gathering human, animal, insect and plant specimens and data, and studying their origin, development, chemical and physical form, structure, composition, and life and reproductive processes;
- (d) examining living organisms using a variety of specialised equipment, instruments, technologies and techniques such as electron microscopes, telemetry, global positioning

- systems, biotechnology, satellite imaging, genetic engineering, digital imaging analysis, polymerase chain reaction and computer modeling;
- (e) identifying, classifying, recording and monitoring living organisms and maintaining databases;
  - (f) writing scientific papers and reports detailing research and any new findings which are then made available to the scientific community in scientific journals or at conferences for scrutiny and further debate;
  - (g) designing and carrying out environmental impact assessments to identify changes caused by natural or human factors;
  - (h) providing advice to governments, organizations and businesses in areas such as conservation, management of natural resources, the effects of climate change and pollution.

Examples of the occupations classified here:

- Animal Behaviourist
- Bacteriologist
- Biologist
- Biotechnologist
- Botanist
- Cell Geneticist
- Marine Biologist
- Microbiologist
- Molecular Biologist
- Molecular Geneticist
- Zoologist

Some related occupations classified elsewhere:

- Ecologist – 2133

## **2132 Farming, forestry and fisheries advisers**

Farming, forestry and fisheries advisers study and provide assistance and advice on farm, forestry and fisheries management, including cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They develop techniques for increasing productivity, and study and develop plans and policies for land and fisheries management.

Tasks include -

- (a) collecting and analyzing data and samples related to produce, feed, soil, water quality and other factors affecting farm, forest or fishery production;
- (b) advising on techniques for improving the production of crops, livestock and fish, and alternative production options;
- (c) advising on livestock and crop disease, control of pests and weeds, soil improvement, animal husbandry and feeding programs;
- (d) studying the environmental factors affecting commercial crop production, pasture growth, animal breeding, fish stocks and the growth and health of forest trees;
- (e) studying the effects of cultivation techniques, soils, insects, diseases and fisheries practices on animal, crop, forestry and fisheries yield;
- (f) studying fish migration, growth, feeding and spawning and devising methods of collecting, fertilizing, incubating and hatching fish eggs;
- (g) researching into characteristics, use capability and productivity of soils and applying findings to development of improved agricultural, horticultural and forestry practices;
- (h) developing procedures and techniques for solving agricultural problems and improving the efficiency of production;
- (i) managing forest and fisheries resources to maximize their long-term commercial,

- recreational and environmental benefits;
- (j) studying the propagation and culture of forest trees, methods for improving the growth of stock, and the effects of thinning on forest yields;
- (k) investigating, planning and implementing management procedures to cope with the effects of fires, floods, droughts, soil erosion, pests and diseases;
- (l) preparing scientific reports and conducting advisory information sessions and lectures for farming, forestry and fishing communities and other groups.

Examples of the occupations classified here:

- Agronomist
- Fisheries adviser
- Forestry scientist
- Forestry adviser
- Silviculturist
- Soil scientist

### **2133 Environmental protection professionals**

Environmental protection professionals study and assess the effects on the environment of human activity such as air, water and noise pollution, soil contamination, climate change, toxic waste and depletion and degradation of natural resources. They develop plans and solutions to protect, conserve, restore, minimize and prevent further damage to the environment.

- (a) conducting research, performing tests, collecting samples, performing field and laboratory analysis to identify sources of environmental problems and recommending ways to prevent, control and remediate the impact of environmental problems;
- (b) assessing the likely impact that potential or proposed activities, projects and developments may have on the environment, and recommending whether such developments should proceed;
- (c) developing and coordinating the implementation of environmental management systems to enable organizations to identify, monitor and control the impact of their activities, products and services on the environment;
- (d) conducting audits to evaluate environmental impact of existing activities, processes, wastes, noises and substances;
- (e) assessing an organization's compliance with government and internal environmental regulations and guidelines, identifying violations and determining appropriate remedial action;
- (f) providing technical advice and support services to organizations on how best to deal with environmental problems in order to reduce environmental damage and minimize financial loss;
- (g) developing conservation plans.

Examples of the occupations classified here:

- Air Pollution Analyst
- Conservation Officer
- Conservation Scientist
- Ecologist
- Environmental Adviser
- Environmental Auditor
- Environmental Consultant
- Environmental Research Scientist
- Environmental Scientist
- Park Ranger
- Water Quality Analyst

Some related occupations classified elsewhere:

- Environmental Engineer - 2143
- Environmental Health Officer – 3257



<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>213</b>	<b>Minor Group</b>	<b>Life science professionals</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2131</b>		<b>Biologists, botanists, zoologists and related professionals</b>
	21311	Helminthologist/Herpetologist/Kinesiologist/Lepidopterist
	21312	Biophysicist/ Biochemist
	21313	Bacteriologist (medical/ pharmaceutical/ soil/ other)/ Pharmacologist
	21314	Physiologist (plant/ insects)/ Pathologist, plant/ Anatomist
	21315	Biologist (any specialism)
	21316	Cytologist (animal/plant)/ Embryologist/ Entomologist/ Histologist, animal/ Microbiologist/ Taxonomist (plant)/ Botanist (morphologist)/ Histologist (plant)/ Mycologist/ Toxicologist(Animal)/Botanist/Botanist (Economic)
	21317	Ichthyologist/ Mammalogist/ Scientist, animal husbandry/ Nematologist/ Ornithologist/ Parasitologist/ Pisciculturist/ Protozoologist/Taxonomist (animal) / Immunologist
	21318	Engineer (genetics)/ Endocrinologist/ Geneticist/ Epidemiologist/ Geneticist (animal)/ Associate, research: clinical/Associate, research: medical/ Bacteriologist/ Behaviorist, animal Biologist, marine/Biologist, molecular/ Biotechnologist/ Geneticist, molecular/Hydro biologist Physiologist/Researcher, biomedical/ Researcher, clinical/Researcher, medical Researcher, midwifery/ Researcher, nursing/Scientist, clinical/Scientist, food Scientist, health/Scientist, medical/ Toxicologist
	21319	Biologists, botanists, zoologists and related professionals ,n.e.c
<b>2132</b>		<b>Farming, forestry and fisheries advisers</b>
	21321	Arboriculturist/ Advisor, forestry (professional)/ Forestry Scientist/ Silviculturist/Adviser, grower's
	21322	Floriculturist/ Horticulturist/ Olericulturist/ Pomologist
	21323	Agronomist / Advisor/ Scientist (agricultural (professional))/ Specialist, agricultural extension
	21324	Scientist, crop research
	21325	Scientist, soil
	21326	Scientist (animal) / Advisor, farming (professional)/ Demonstrator, farm/ Superintendent, garden
	21327	Agent, field service: agriculture/Agriculturist/Aerologist//Consultant, agricultural Consultant, crop/Consultant, farm management /Consultant, livestock/Consultant, soil Engineer, agricultural/Engineer, forest/Officer, agricultural extension /Officer, fisheries management
	21328	Scientist, horticultural /Specialist, crop/Supervisor, agricultural extension
<b>2133</b>		<b>Environmental protection professionals</b>
	21331	Ecologist, animal
	21332	Ecologist (forest) / Specialist, range management
	21333	Ecologist (plant) / Expert (plant protection)
	21334	Air pollution analyst



Unit Group	Sub-unit Group	Description
	21335	Conservation scientist
	21336	Environmental advisor/ Officer, environmental/Officer, environmental management/Officer <b>environmental Protection cuction/rehabilitation/ environmental waste.</b>
	21337	Environmental consultant
	21338	Environmental research scientist/Officer, flora and fauna management/Officer, natural resource management/Officer, natural resource: ecology/Officer, rehabilitation: environmental rehabilitation/Officer, revegetation/Officer, soil conservation/Officer, tree management/Officer, vegetation management/Officer, water quality/Officer, waterways management/Officer, waterways program/Officer, waterways: policy development Ranger, park: environmental protection/Researcher, environmental/Researcher, salinity/Researcher, water quality/Researcher, water resources/Scientist, air quality/Scientist, computer modelling: salinity/Scientist, conservation/Scientist, environmental/Scientist, salinity/Scientist, water quality/Scientist, water resources/Toxicologist, environmental
	21339	Water quality analyst/Analyst, air pollution\Analyst, land degradation/Analyst, water quality/Auditor, environmental/Conservationist, soil/Consultant, ecological/Consultant, environmental/Consultant, environmental management/Consultant, land management: environmental management/Consultant, natural resource management\Coordinator, catchment: environment/Coordinator, environmental/Ecologist/Environmental/Limnologist Officer, catchment management/Officer, conservation/ Environmental protection professionals,n.e.c

## 214 Engineering professionals (excluding electro technology)

Engineering professionals (excluding electro technology) design, plan and organize the testing, construction, installation and maintenance of structures, machines and their components, and production systems and plants, and plan production schedules and work procedures to ensure engineering projects are undertaken safely, efficiently and in a cost effective manner.

Tasks performed usually include:

Planning and designing chemical process systems, civil engineering projects, mechanical equipment and systems, mining and drilling operations, and other engineering projects; specifying and interpreting drawings and plans, and determining construction methods; supervising the construction of structures, water and gas supply and transportation systems, and the manufacture, installation, operation and maintenance of equipment, machines and plant; organizing and managing project labour and the delivery of materials, plant and equipment; estimating total costs and preparing detailed cost plans and estimates as tools for budgetary control; resolving design and operational problems in the various fields of engineering through the application of engineering technology.

Occupations in this minor group are classified into the following unit groups:

- 2141 Industrial and production engineers
- 2142 Civil engineers

- 2143 Environmental engineers
- 2144 Mechanical engineers
- 2145 Chemical engineers
- 2146 Mining engineers, metallurgists and related professionals
- 2149 Engineering professionals not elsewhere classified

## **2141 Industrial and production engineers**

Industrial and production engineers conduct research and design, organize and oversee the construction, operation and maintenance of process plant and installations. They establish programs for the coordination of manufacturing activities; and assess cost effectiveness and safety.

Tasks include -

- (a) studying functional statements, organizational charts and project information to determine functions and responsibilities of workers and work units and to identify areas of duplication;
- (b) establishing work measurement programs and analyzing work samples to develop standards for labour utilization;
- (c) analyzing workforce utilization, facility layout, operational data and production schedules and costs to determine optimum worker and equipment efficiencies;
- (d) developing specifications for manufacture, and determining materials, equipment, piping, material flows, capacities and layout of plant and systems;
- (e) organizing and managing project labour and the delivery of materials, plant and equipment;
- (f) establishing standards and policies for installation, modification, quality control, testing, inspection and maintenance according to engineering principles and safety regulations;
- (g) inspecting plant to improve and maintain performance;
- (h) directing the maintenance of plant buildings and equipment, and coordinating the requirements for new designs, surveys and maintenance schedules;
- (i) advising management on new production methods, techniques and equipment;
- (j) liaising with materials buying, storing and controlling departments to ensure a steady flow of supplies.

Examples of the occupations classified here:

- Industrial efficiency engineer
- Industrial engineer
- Plant engineer
- Production engineer

Some related occupations classified elsewhere:

- Manufacturing production manager – 1321

## **2142 Civil engineers**

Civil engineers conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.

Tasks include -

- (a) conducting research and developing new or improved theories and methods related to civil engineering;
- (b) advising on and designing structures such as bridges, dams, docks, roads, airports, railways, canals, pipelines, waste-disposal and flood-control systems, and industrial and other large buildings;
- (c) determining and specifying construction methods, materials and quality standards, and

- directing construction work;
- (d) establishing control systems to ensure efficient functioning of structures as well as safety and environmental protection;
- (e) organizing and directing maintenance and repair of existing civil engineering structures;
- (f) analyzing the behaviour of soil and rock when placed under pressure by proposed structures and designing structural foundations;
- (g) analyzing the stability of structures and testing the behaviour and durability of materials used in their construction.

Examples of the occupations classified here:

- Civil engineer
- Geotechnical engineer
- Structural engineer

Some related occupations classified elsewhere:

- Civil engineering project manager - 1323
- Geoscientist - 2114
- Mining engineer - 2146
- Metallurgist - 2146
- Town and Traffic Planners – 2164

### **2143 Environmental engineers**

Environmental engineers conduct research, advise on, design and direct implementation of solutions to prevent, control or remedy negative impacts of human activity on the environment utilizing a variety of engineering disciplines. They conduct environmental assessments of construction and civil engineering projects and apply engineering principles to pollution control, recycling and waste disposal.

Tasks include -

- (a) conducting research, assessing and reporting on the environmental impact of existing and proposed construction, civil engineering and other activities;
- (b) inspecting industrial and municipal facilities and programs to evaluate operational effectiveness and ensure compliance with environmental regulations;
- (c) designing and overseeing the development of systems, processes and equipment for control, management, or remediation of water, air, or soil quality;
- (d) providing environmental engineering assistance in network analysis, regulatory analysis, and planning or reviewing database development;
- (e) obtaining, updating, and maintaining plans, permits, and standard operating procedures;
- (f) providing engineering and technical support for environmental remediation and litigation projects, including remediation system design and determination of regulatory applicability;
- (g) monitoring progress of environmental improvement programs;
- (h) advising corporations and government agencies of procedures to follow in cleaning up contaminated sites to protect people and the environment;
- (i) collaborating with environmental scientists, planners, hazardous waste technicians, engineers from other disciplines, and specialists in law and business to address environmental problems.

Examples of the occupations classified here:

- Air pollution control engineer
- Environmental analyst
- Environmental engineer

- Environmental remediation specialist

## **2144 Mechanical engineers**

Mechanical engineers conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.

Tasks include -

- (a) advising on and designing machinery and tools for manufacturing, mining, construction, agricultural, and other industrial purposes;
- (b) advising on and designing steam, internal combustion and other non-electric motors and engines used for propulsion of railway locomotives, road vehicles or aircraft, or for driving industrial or other machinery;
- (c) advising on and designing: hulls, superstructures and propulsion systems of ships; mechanical plant and equipment for the release, control and utilization of energy; heating, ventilation and refrigeration systems, steering gear, pumps, and other mechanical equipment;
- (d) advising on and designing airframes, undercarriages and other equipment for aircraft as well as suspension systems, brakes, vehicle bodies and other components of road vehicles;
- (e) advising on and designing non-electrical parts of apparatus or products such as word processors, computers, precision instruments, cameras and projectors;
- (f) establishing control standards and procedures to ensure efficient functioning and safety of machines, machinery, tools, motors, engines, industrial plant, equipment, or systems;
- (g) ensuring that equipment, operation and maintenance comply with design specifications and safety standards.

Examples of the occupations classified here:

- Aeronautical engineer
- Marine architect
- Marine engineer
- Mechanical engineer

Some related occupations classified elsewhere:

- Ships' engineer – 3151

## **2145 Chemical engineers**

Chemical engineers conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.

Tasks include -

- (a) conducting research and advising on, and developing commercial-scale chemical processes to refine crude oil and other liquids or gases, and to produce substances and items such as petroleum derivatives, explosives, food and drink products, medicines, or synthetic materials;
- (b) specifying chemical production methods, materials and quality standards and ensuring that they conform to specifications;
- (c) establishing control standards and procedures to ensure safety and efficiency of

- chemical production and safety of workers operating equipment or working in close proximity to on-going chemical reactions;
- (d) designing chemical plant equipment and devising processes for manufacturing chemicals and products
- (e) performing tests throughout stages of production to determine degree of control over variables, including temperature, density, specific gravity, and pressure;
- (f) developing safety procedures to be employed;
- (g) preparing estimates of production costs and production progress reports for management;
- (h) performing laboratory studies of steps in manufacture of new products and testing proposed process in small scale operation such as a pilot plant.

Examples of the occupations classified here:

- Chemical engineer
- Fuel technologist
- Plastics technologist
- Refinery process engineer

## **2146 Mining engineers, metallurgists and related professionals**

Mining engineers, metallurgists and related professionals conduct research on and , design and develop and maintain commercial-scale methods of extracting metals from their ores, or minerals, water, oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on mining or metallurgical aspects of particular materials, products or processes.

Tasks include -

- (a) determining the location and planning the extraction of coal, metallic ores, non-metallic minerals, and building materials, such as stone and gravel;
- (b) determining most suitable methods of efficient mining and extraction, types of machinery to be used, planning layout and directing construction of shafts and tunnels;
- (c) determining drilling site and devising methods of controlling the flow of water, oil or gas from wells;
- (d) planning and directing storage, initial treatment and transportation of water, oil or gas;
- (e) establishing safety standards and procedures and first-aid facilities, especially underground;
- (f) conducting research, developing methods of extracting metals from their ores and advising on their application;
- (g) investigating properties of metals and alloys, developing new alloys and advising on and supervising technical aspects of metal and alloy manufacture and processing;
- (h) maintaining technical liaison and consultancy with other relevant specialists such as geologists and geophysicists;
- (i) examining deposits or mines to evaluate profitability.

Examples of the occupations classified here:

- Extractive metallurgist,
- Mining engineer
- Petroleum and natural gas engineer

Some related occupations classified elsewhere:

- Geologist - 2114
- Geophysicist – 2114

## **2149 Engineering professionals not elsewhere classified**

This unit group covers engineering professionals not classified elsewhere in minor group 214, Engineering professionals (excluding electro technology) or in minor group 215, Electro technology engineers. For instance, the group includes those who conduct research, advise on or develop engineering procedures and solutions concerning workplace safety, biomedical engineering, optics, materials, nuclear power generation and explosives.

In such cases tasks would include -

- (a) applying knowledge of engineering to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, and instrumentation;
- (b) designing devices used in various medical procedures, imaging systems such as magnetic resonance imaging, and devices for automating insulin injections or controlling body functions;
- (c) designing components of optical instruments such as lenses, microscopes, telescopes, lasers, optical disc systems and other equipment that utilize the properties of light;
- (d) designing, testing, and coordinating the development of explosive ordnance material to meet military procurement specifications;
- (e) designing and overseeing construction and operation of nuclear reactors and power plants and nuclear fuels reprocessing and reclamation systems;
- (f) designing and developing nuclear equipment such as reactor cores, radiation shielding, and associated instrumentation and control mechanisms;
- (g) assessing damage and providing calculations for marine salvage operations;
- (h) studying and advising on engineering aspects of particular manufacturing processes, such as those related to glass, ceramics, textiles, leather products, wood, and printing;
- (i) identifying potential hazards and introducing safety procedures and devices.

Examples of the occupations classified here:

- Biomedical engineer
- Explosive ordnance engineer
- Marine salvage engineer
- Materials engineer
- Optical engineer
- Safety engineer

Some related occupations classified elsewhere:

- Industrial and production engineer - 2141
- Environmental engineer - 2143
- Surveyor – 2165

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>214</b>	<b>Minor Group</b>	<b>Engineering professionals (excluding electro technology)</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2141</b>		<b>Industrial and production engineers</b>
	21411	Engineer, design (except computers)
	21412	Designer, systems (except computers)
	21413	Engineer, cost evaluation
	21414	Engineer, industrial efficiency/Layout
	21415	Engineer, plant
	21416	Engineer, production
	21417	Engineer, safety
	21418	Engineer, food processing/Engineer, industrial/Engineer, manufacturing/Engineer, methods/Engineer, planning: production/Engineer, process: manufacturing/ Technologist, packaging
<b>2142</b>		<b>Civil engineers</b>
	21421	Civil-engineer, aerodrome construction
	21422	Engineer (chief), building construction/ works
	21423	Civil-engineer, highway, street construction and bridge construction
	21424	Civil-engineer, hydraulic/hydrology/irrigation
	21425	Civil-engineer, public health/ sanitary
	21426	Civil-engineer, railway construction
	21427	Civil-engineer, soil mechanics
	21428	Technologist (building materials/ civil works)/Tester, cement
	21429	Civil-engineer, other /Engineer, civil/Engineer, dredging/Engineer, geotechnical Engineer, hydraulics/Engineer, hydrology/Engineer, irrigation/ Engineer, public health/Engineer, sanitary/Engineer, soil mechanics/ Engineer, structural/engineer, n.e.c.

Unit Group	Sub-unit Group	Description
<b>2143</b>		<b>Environmental engineers</b>
	21431	Environmental engineer
	21432	Air pollution control engineer
	21433	Environmental analyst
	21434	Waste management engineer
	21435	Environmental engineer (other)
	21436	Analyst, environmental/Consultant, air pollution control/Consultant, environmental remediation/Engineer, air pollution control/Engineer, process: wastewater/Specialist, environmental remediation
<b>2144</b>		<b>Mechanical engineers</b>
	21441	Engineer, ground/ jet engine/ lubrication / Mechanical-engineer (aeronautics) Inspector, aero engines
	21442	Mechanical-engineer
	21443	Mechanical-engineer, agriculture
	21444	Mechanical-engineer (air-conditioning/ automotive/ motors and engines (except marine)/ boiler and accessories) / Designer motor-car/ Mechanical-engineer (diesel/ gas turbine/ heating, ventilation and refrigeration)
	21445	Mechanical-engineer ( industrial machinery and tools/ instruments)/ Designer, engine/Engineer, aeronautical/Engineer, aerospace/Engineer, agricultural machines/Engineer, air-conditioning/Engineer, automotive/Engineer, cryogenic/Engineer, diesel/Engineer, gas turbine/Engineer, heating /Engineer, instruments: mechanical /Engineer, internal: combustion engine/Engineer, locomotive engine /Engineer, lubrication/Engineer, marine/Engineer, mechanical/Engineer, mechatronics/ Engineer, motors and engines: mechanical/Engineer, naval/Engineer, naval: construction/Engineer, refrigeration: mechanical/Engineer, ship construction/ Technologist, engineering: mechanical/Technologist, welding
	21446	Mechanical-engineer ( motors and engines (marine)/ ship construction)
	21447	Mechanical-engineer (nuclear power/ cryogenic)
	21448	Architect (marine/naval )/ Designer (aircraft)
	21449	Technologist engineering (mechanical)
<b>2145</b>		<b>Chemical engineers</b>
	21451	Chemical-engineer (petroleum and natural gas)/ Engineer natural gas production and distribution/ Technologist (fuel/ chemical process)
	21452	Expert/ Technologist (fiber / paper)
	21453	Technologist, food and drink
	21454	Technologist. Paint/ plastics/polymer/ tyre/ rubber
	21455	Technologist (sugar cane)/ Tester (butter and fat)
	21456	Tester (compound and liquid gas)
	21457	Tester moisture (grain)/ salt



Unit Group	Sub-unit Group	Description
	21458	Chemical-engineer (other)/ Engineer, chemical/Engineer, chemical process Engineer, chemical: petroleum and natural gas/Engineer, petroleum refinery/Engineer, refinery process/Maker, wine/Oenologist/Technologist, brewing/ Consultant, engineering, chemical/ Consultant, engineering, chemical/Engineer, petrochemical/Engineer, pharmaceutical/technologist fiber (animal)
<b>2146</b>		<b>Mining engineers, metallurgists and related professionals</b>
	21461	Assayer, metallurgist
	21462	Mining-engineer, all except petroleum and natural gas
	21463	Mining-engineer, petroleum and natural gas
	21464	Technologist, extractive
	21465	Metallurgist, extractive
	21466	Engineer, metallurgical
	21467	Metallurgist ( foundry / physical)
	21468	Metallurgist, radioactive minerals/ Engineer, foundry/Metallurgist
<b>2149</b>		<b>Engineering professionals not elsewhere classified</b>
	21491	Architect, consulting
	21492	Analyst/ Engineer (communications/ systems, except computers)
	21493	Engineer, spinning
	21494	Engineer, time and motion study
	21495	Engineer, weaving
	21496	Engineer, work study/ Surveyor, quantity
	21497	Technologist, cement/ glass/ceramics/ leather/ textiles/ wood
	21498	Engineer( robotics / biomedical/ ceramics/ cost: evaluation/ electric power generation: nuclear/ explosive ordnance/ marine salvage/ materials/ nuclear power/ nuclear power generation/ optical/Technologist, printing)
	21499	Technologist, n.e.c

## 215 Electro technology engineers

Electro technology engineers conduct research on and design, advise, plan and direct the construction and operation of electronic, electrical and telecommunications systems, components, motors, and equipment. They organize and establish control systems to monitor the performance and safety of electrical and electronic assemblies and systems.

Tasks performed usually include:

Conducting research, advising on and directing the maintenance and repair of electrical, electronic and telecommunications products and systems; advising on and designing power stations and systems that generate, transmit and distribute electrical power; establishing control standards to monitor performance and safety of electrical, electronic and telecommunication systems and equipment.

Occupations in this minor group are classified into the following unit groups:

- 2151 Electrical engineers
- 2152 Electronics engineers
- 2153 Telecommunications engineers

## **2151 Electrical engineers**

Electrical engineers conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.

Tasks include -

- (a) advising on and designing power stations and systems which generate , transmit and distribute electrical power;
- (b) supervising, controlling and monitoring the operation of electrical generation, transmission and distribution systems;
- (c) advising on and designing systems for electrical motors, electrical traction and other equipment, or electrical domestic appliances;
- (d) specifying electrical installation and application in industrial and other buildings and objects;
- (e) establishing control standards and procedures to monitor performance and safety of electrical generating and distribution systems, motors and equipment;
- (f) determining manufacturing methods for electrical systems, as well as maintenance and repair of existing electrical systems, motors and equipment.

Examples of the occupations classified here

- Electric power generation engineer
- Electrical engineer
- Electromechanical engineer

Some related occupations classified elsewhere:

- Nuclear power generation engineer - 2149
- Electronics engineer - 2152
- Telecommunications Engineer - 2153
- Broadcast Engineer – 2153

## **2152 Electronics engineers**

Electronics engineers conduct research on, design, and direct the construction functioning, maintenance and repair of electronic systems and study and advise on technological aspects of electronic engineering materials, products or processes.

Tasks include -

- (a) advising on and designing electronic devices or components, circuits, semi-conductors, and systems;
- (b) specifying production or installation methods, materials and quality standards and directing production or installation work of electronic products and systems;
- (c) establishing control standards and procedures to ensure efficient functioning and safety of electronic systems, motors and equipment;
- (d) organizing and directing maintenance and repair of existing electronic systems and equipment;
- (e) designing electronic circuits and components for use in fields such as aerospace guidance and propulsion control, acoustics, or instruments and controls;
- (f) researching and advising on radar, telemetry and remote control systems, microwaves and other electronic equipment;

- (g) designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software;
- (h) developing apparatus and procedures to test electronic components, circuits and systems.

Examples of the occupations classified here:

- Computer hardware engineer
- Electronics engineer
- Instrumentation engineer

Some related occupations classified elsewhere:

Telecommunications Engineer – 2153

### **2153 Telecommunications engineers**

Telecommunications engineers conduct research and advise on, design, and direct the construction functioning, maintenance and repair of telecommunication systems and equipment. They study and advise on technological aspects of telecommunication engineering materials, products or processes.

Tasks include -

- (a) advising on and designing telecommunications devices or components, systems, equipment and distribution centres;
- (b) specifying production or installation methods, materials, quality and safety standards and directing production or installation work of telecommunications products and systems;
- (c) organizing and directing maintenance and repair of existing telecommunication systems, motors and equipment;
- (d) researching and advising on telecommunications equipment;
- (e) planning and designing communications networks based on wired, fiber optical and wireless communication media;
- (f) designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software;
- (g) designing telecommunications networks and radio and television distribution systems, including both cable and over the air.

Examples of the occupations classified here:

- Broadcast engineer
- Telecommunications engineer
- Telecommunications engineering technologist

Some related occupations classified elsewhere:

- Electronics engineer – 2152

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>215</b>	<b>Minor Group</b>	<b>Electro technology engineers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2151</b>		<b>Electrical engineers</b>
	21511	Electrical-engineer, electric power (high voltage)
	21512	Electrical-engineer, electric traction
	21513	Electrical-engineer, electromechanical equipment
	21514	Electrical-engineer, illumination
	21515	Engineer, transmission (electric power)
	21516	Technologist, engineering (electrical)
	21517	Designer, engine: electrical/Designer, motor: electrical/Engineer, electrical Engineer, power distribution/Engineer, power generation/Engineer, systems : electrical
	21518	Surveyor, electrical
<b>2152</b>		<b>Electronics engineers</b>
	21521	Electronics-engineer, computer hardware design
	21522	Electronics-engineer, information engineering
	21523	Electronics-engineer, instrumentation
	21524	Electronics-engineer, semiconductors
	21525	Technologist, engineering ( electronics)
	21527	Electronics-engineer (other)
<b>2153</b>		<b>Telecommunications engineers</b>
	21531	Telecommunications engineer, aerospace
	21532	Engineer, broadcasting
	21533	Telecommunication- engineer, radar/signal systems
	21534	Telecommunication- engineer, radio/television/satellite TV
	21535	Telecommunication- engineer, telephone/mobile/internet
	21536	Telecommunication- engineer, cable
	21537	Telecommunication-engineer, under water cable
	21538	Telecommunications engineers (other)/ Engineer, telegraph/Engineer Telephone/ Television /Technologist, engineering: telecommunications

## **216 Architects, planners, surveyors and designers**

Architects, planners, surveyors and designers plan and design landscapes, building exteriors and interiors; products for manufacture; and information for visual communication, publication and display. They conduct survey work to precisely position geographical features, design, prepare and revise maps, and develop and implement plans and policies for controlling the use of land.

Tasks performed usually include:

Determining the objectives and constraints of the design brief by consulting with clients and stakeholders; formulating design concepts and plans that harmonize aesthetic considerations with technical, functional, ecological and production requirements; preparing sketches, diagrams, illustrations, animations; plans, maps, charts, samples and models to communicate design concepts and other information; analyzing photographs, satellite imagery, survey documents and data, maps, records, reports and statistics; undertaking research and analyzing functional, spatial, commercial, cultural, safety, environmental and aesthetic requirements.

Occupations in this minor group are classified into the following unit groups:

- 2161 Building architects
- 2162 Landscape architects
- 2163 Product and garment designers
- 2164 Town and traffic planners
- 2165 Cartographers and surveyors
- 2166 Graphic and multimedia designers

### **2161 Building architects**

Building architects design commercial, industrial, institutional, residential and recreational buildings and plan and monitor their construction, maintenance and rehabilitation.

Tasks include -

- (a) developing new or improved architectural theories and methods;
- (b) inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings and alterations to existing buildings;
- (c) providing information regarding designs, materials and estimated building times;
- (d) preparing project documentation, including sketches and scale drawings, and integrating structural, mechanical and aesthetic elements in final designs;
- (e) writing specifications and contract documents for use by builders and calling tenders on behalf of clients;
- (f) making necessary contacts to ensure feasibility of projects regarding style, cost, timing, and compliance with regulations;
- (g) identifying and finding best solutions for problems regarding function and quality of interior environments of buildings and making necessary designs, drawings and plans;
- (h) monitoring construction or rehabilitation work to ensure compliance with specifications and quality standards;
- (i) maintaining technical liaison and consultancy with other relevant specialists.

Examples of the occupations classified here:

- Building architect
- Interior architect

Some related occupations classified elsewhere:

- Landscape architect - 2162
- Interior decorator - 3432
- Interior designer – 3432

### **2162 Landscape architects**

Landscape architects plan and design landscapes and open spaces for projects such as, parks, schools, institutions, roads, external areas for commercial, industrial and residential sites, and plan and monitor

their construction, maintenance and rehabilitation.

Tasks include -

- (a) developing new or improved theories and methods in landscape architecture;
- (b) inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings, parks, roads and other open spaces;
- (c). compiling and analyzing site and community data about geographical and ecological features, landforms, soils, vegetation, site hydrology, visual characteristics and human-made structures, to formulate and use and development recommendations, and for preparing environmental impact statements;
- (d) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modeling, structures, vegetation and access;
- (e) writing specifications and contract documents for use by builders and civil engineering contractors and calling tenders on behalf of clients;
- (f) making necessary contacts to ensure feasibility of projects regarding style, cost, timing, and compliance with regulations;
- (g) identifying and finding best solutions for problems regarding function and quality of exterior environments and making necessary designs, drawings and plans;
- (h) monitoring construction or rehabilitation work to ensure compliance with specifications and quality standards;
- (i) maintaining technical liaison and consultancy with other relevant specialists.

Examples of the occupations classified here:

- Landscape architect

Some related occupations classified elsewhere:

- Building architect - 2161
- Urban planner – 2164

### **2163 Product and garment designers**

Product and garment designers design and develop products for manufacture and prepare designs and specifications of products for mass, batch and one-off production.

Tasks include -

- (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders;
- (b) formulating design concepts for clothing, textiles, industrial, commercial and consumer products, and jewelry;
- (c) harmonizing aesthetic considerations with technical, functional, ecological and production requirements;
- (d) preparing sketches, diagrams, illustrations, plans, samples and models to communicate design concepts;
- (e) negotiating design solutions with clients, management, and sales and manufacturing staff;
- (f) selecting, specifying and recommending functional and aesthetic materials, production methods and finishes for manufacture;
- (g) detailing and documenting the selected design for production;
- (h) preparing and commissioning prototypes and samples;
- (i) supervising the preparation of patterns, programs and tooling, and the manufacturing process.

Examples of the occupations classified here:

- Costume designer
- Fashion designer
- Industrial designer
- Jewellery designer

Some related occupations classified elsewhere:

- Engine designer - 2144
- Building architect - 2161
- Landscape architect - 2162
- Interior designer – 3432

## **2164 Town and traffic planners**

Town and traffic planners develop and implement plans and policies for the controlled use of urban and rural land and for traffic systems. They conduct research and provide advice on economic, environmental and social factors affecting land use and traffic flows.

Tasks include -

- (a) planning layout and coordinating development of urban areas;
- (b) compiling and analyzing data on economic, legal, political, cultural, demographic, sociological, physical and environmental factors affecting land use;
- (c) conferring with government authorities, communities and specialists in fields such as architecture, planning, social science the environment and the law;
- (d) devising and recommending use and development of land, and presenting narrative and graphic plans, programs and designs to groups and individuals;
- (e) advising governments, companies and communities on urban and regional planning issues and proposals;
- (f) reviewing and evaluating environmental impact reports;
- (g) planning layout and coordinating development of urban areas;
- (h) planning and the development of land areas for parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
- (i) planning and advising on routing and control of road traffic and public transportation systems for efficiency and safety.

Examples of the occupations classified here:

- Land Planner
- Traffic planner
- Urban Planner

Some related occupations classified elsewhere:

- Building architect - 2161
- Landscape architect – 2162

## **2165 Cartographers and surveyors**

Cartographers and surveyors determine the exact position of, or prepare and revise digital, graphic and pictorial maps, charts or other visual representation of, natural and constructed features and boundaries of land, seas, underground areas and celestial bodies, applying scientific and mathematical principles.

Tasks include -

- (a) surveying, measuring and describing land surfaces, mines, underground surfaces, sea, river and lake beds;
- (b) noting exact position of various features and recording survey data in digital form;
- (c) making charts and maps to be used in determining navigable waters and channels and in

- planning construction of marine structures;
- (d) planning and conducting aerial photographic surveys;
- (e) designing, compiling and revising maps and charts using aerial and other photographs, satellite imagery, survey documents and data, existing maps and records, reports and statistics;
- (f) undertaking research and development of surveying and photogrammetric measurement systems, cadastral systems and land information systems;
- (g) studying and advising on technical, aesthetic and economic aspects of map production;
- (h) maintaining technical liaison and consultancy with other relevant specialists.

Examples of the occupations classified here:

- Aerial surveyor,
- Cadastral Surveyor
- Cartographer
- Hydrographic surveyor,
- Land surveyor
- Mine surveyor
- Photogrammetrist

Some related occupations classified elsewhere:

- Quantity Surveyor- 2149
- Building Surveyor - 3112
- Marine Surveyor – 3115

## **2166 Graphic and multimedia designers**

Graphic and multimedia designers design information content for visual and audio communication, publication and display using print, film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other visual images for use in computer games, movies, music videos, print media and advertisements.

Tasks include -

- (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders;
- (b) undertaking research and analyzing functional communication requirements;
- (c) formulating design concepts for the subject to be communicated;
- (d) preparing sketches, diagrams, illustrations and layouts to communicate design concepts;
- (e) designing complex graphics and animation to satisfy functional, aesthetic and creative requirements of the design brief;
- (f) creating two-dimensional and three-dimensional images depicting objects in motion or illustrating a process, using computer animation or modeling programs;
- (g) negotiating design solutions with clients, management, sales and production staff;
- (h) selecting, specifying or recommending functional and aesthetic materials and media for publication, delivery or display;
- (i) detailing and documenting the selected design for production;
- (j) supervising or carrying out production in the chosen media.

Examples of the occupations classified here:

- Animator,
- Digital artist,
- Graphic designer
- Illustrator
- Multimedia designer
- Publication designer



- Web designer

Some related occupations classified elsewhere:

- Interior architect - 2161
- Interior designer -3432
- Multimedia developer – 2513
- Visual artist - 2651
- Web developer – 2513

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>216</b>	<b>Minor Group</b>	<b>Architects, planners, surveyors and designers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2161</b>		<b>Building architects</b>
	21611	Architect, commercial building
	21612	Architect, industrial building
	21613	Architect, institutional building
	21614	Architect, recreational building
	21615	Assistant, architectural
	21616	Architect, interior
<b>2162</b>		<b>Landscape architects</b>
	21621	Architect, landscape
	21622	Landscapist
<b>2163</b>		<b>Product and garment designers</b>
	21631	Designer, display/exhibition
	21632	Designer, fashion
	21633	Designer, industrial/commercial products
	21634	Designer, stage set
	21635	Designer, textile
	21636	Designer, jewellery
	21637	Decorator, display (window)
	21638	Designer, display
	21639	Designer (other)/ Designer, clothing/Designer, commercial: products/ Designer, costume/Designer, dress/Designer, furniture/Designer, garment/ Designer, industrial/Designer, package/Designer, products
<b>2164</b>		<b>Town and traffic planners</b>
	21641	Planner, town
	21642	Planner, urban
	21643	Analyst, schedule (air transport)
	21644	Engineer, traffic
	21645	Planner, traffic
	21646	Superintendent, divisional (railway)
	21647	Superintendent, road transport

Unit Group	Sub-unit Group	Description
2165		<b>Cartographers and surveyors</b>
	21651	Engineer, territory
	21652	Leadsman / Leadsman (river survey)
	21653	Observer, field/ Off setter
	21654	Surveyor, general/ cadastral/ rand
	21655	Traverser / Triangulator
	21656	Surveyor Geodesic/ hydrographic / Maker, map/Surveyor, aerial/ Surveyor, hydrographic/Surveyor, land/Surveyor, photographic/ Surveyor, topographic
	21657	Surveyor, mining
	21658	Surveyor, photogrammetric
	21659	Surveyor/ Leveler (railways/ topographic/ air)/ <b>Cartographer(including marine)/Computer, air survey/Photogrammetric/ Planet abler</b>
2166		<b>Graphic and multimedia designers</b>
	21661	Designer, graphic
	21662	Designer, art (motion picture)
	21663	Designer, multimedia (visual and audio media)
	21664	Animator
	21665	Illustrator, advertising/book
	21666	Designer, publication
	21667	Designer, web
	21668	Artist, commercial/Artist, digital/Author, dvd/Author, html/Author, internet content/Author, multimedia/Author, web/Author, website/Designer/ animation/Designer, computer games/Designer, poster/Designer, typographical

## 22 Health professionals

Health professionals conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge relating to medicine, nursing, dentistry, veterinary medicine, pharmacy, and promotion of health.

Tasks performed by workers in this sub-major group usually include:

Conducting research and obtaining scientific knowledge through the study of human and animal disorders and illnesses and ways of treating them; advising on or applying preventive and curative measures, or promoting health; preparing scientific papers and reports. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 221 Medical doctors
- 222 Nursing and midwifery professionals
- 223 Traditional and complementary medicine professionals

- 224 Paramedical practitioners
- 225 Veterinarians
- 226 Other health professionals

#### Notes

In using ISCO in applications that seek to identify, describe or measure the health work force, it should be noted that a number of professions considered to be a part of the health work force are classified in groups other than sub-major group 22, Health professionals. Such occupations include but are not restricted to: addictions counselors, biomedical engineers, clinical psychologists and medical physicists.

### 221 Medical doctors

Medical doctors study, diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans through the application of the principles and procedures of modern medicine. They plan, supervise and evaluate the implementation of care and treatment plans by other health care providers, and conduct medical education and research activities.

Tasks performed usually include: conducting physical examinations of patients and interviewing them and their families to determine their health status ; ordering diagnostic tests and analyzing findings; prescribing and administering curative treatments and preventive measures; performing surgery and other clinical procedures; monitoring patients' progress and response to treatment; advising on health, nutrition and lifestyle behaviours which aid prevention or treatment of disease and disorders; identifying and managing complications before, during and after childbirth; planning, managing and implementing referral plans for patients in need of specialized, long-term or other types of health care services; exchanging medical information with other health professionals to ensure continuing and comprehensive care; reporting births, deaths and notifiable diseases to government authorities; conducting research into human disorders and illnesses and preventive or curative methods.

Occupations in this minor group are classified into the following unit groups:

- 2211 Generalist medical practitioners
- 2212 Specialist medical practitioners

#### 2211 Generalist medical practitioners

Generalist medical practitioners diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments and maintain general health in humans through application of the principles and procedures of modern medicine. They do not limit their practice to certain disease categories or methods of treatment, and may assume responsibility for the provision of continuing and comprehensive medical care to individuals, families and communities.

Tasks include -

- (a) conducting physical examinations of patients and interviewing them and their families to determine their health status
- (b) ordering laboratory tests, X-rays and other diagnostic procedures and analyzing findings to determine the nature of disorders or illnesses;
- (c) providing continuing medical care for patients including prescribing, administering, counselling on and monitoring curative treatments and preventive measures;
- (d) performing surgery and other clinical procedures;
- (e) advising individuals, families and communities on health, nutrition and lifestyle which aid prevention or treatment of disease and disorders;
- (f) providing referrals to patients and families for specialized care in hospitals, rehabilitation centres or other types of health care centres;
- (g) identifying, managing and providing referrals for complications before, during and after childbirth;
- (h) recording patients' medical information and history and exchanging information with

- specialist practitioners and other health workers as required for continuing medical care;
- (i) reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements;
- (j) conducting research in human health and medical services and disseminating the findings such as through scientific reports
- (k) planning and participating in programs designed to prevent the occurrence and spread of common diseases.

Examples of the occupations classified here:

- District medical doctor - therapist
- Family medical practitioner
- General practitioner
- Medical doctor (general)
- Medical officer (general)
- Resident medical officer specializing in general practice
- Physician (general)
- Primary health care physician

Some related occupations classified elsewhere:

- Specialist physician (internal medicine) - 2212
- Surgeon - 2212
- Psychiatrist - 2212
- Clinical officer - 2240
- Feldscher - 2240

### Notes

Occupations included in this category require completion of a university-level degree in basic medical education plus postgraduate clinical training or equivalent for competent performance. Medical interns who have completed their university education in basic medical education and are undertaking postgraduate clinical training are included here. Although in some countries 'general practice' and 'family medicine' may be considered as medical specializations, these occupations should always be classified here.

## 2212 Specialist medical practitioners

Specialist medical practitioners diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans, using specialized testing, diagnostic, medical, surgical, physical and psychiatric techniques, through application of the principles and procedures of modern medicine. They specialize in certain disease categories, types of patient or methods of treatment and may conduct medical education and research in their chosen areas of specialization.

Tasks include -

- (a) conducting physical examinations of patients and interviewing them and their families to determine their health status;
- (b) considering medical information provided by a referring doctor or other health care provider,
- (c) ordering specialized diagnostic tests to determine the nature of disorders or illnesses;
- (d) prescribing, administering and monitoring patients' responses to treatments, medications, anaesthetics, psychotherapies, physical rehabilitation programmes and other preventive and curative measures;
- (e) performing surgery of a general or specialized nature;
- (f) managing complications before, during and after childbirth;
- (g) recording patients' medical information and exchanging information with other health professionals to ensure the provision of comprehensive care;
- (h) reporting births, deaths and notifiable diseases to government authorities to meet legal and professional requirements;

- (i) providing information to patients and families and communities about preventive measures, treatment and care for specific ailments;
- (j) performing autopsies to determine cause of death;
- (k) conducting research into specific human disorders and illnesses and preventive or curative methods and disseminating the findings such as through scientific reports;
- (l) planning and participating in programs designed to prevent the occurrence and spread of specific diseases.

Examples of the occupations classified here:

- Anaesthetist
- Cardiologist
- Emergency medicine specialist
- Gynaecologist
- Obstetrician
- Ophthalmologist
- Paediatrician
- Pathologist
- Preventive medicine specialist
- Psychiatrist
- Radiologist
- Resident medical officer in specialist training
- Specialist physician (internal medicine)
- Surgeon

Some related occupations classified elsewhere:

- Biomedical researcher - 2131
- General practitioner - 2211
- Dental practitioner - 2261
- Dental surgeon - 2261
- Oral and maxillofacial surgeon - 2261
- Clinical psychologist - 2634

**Note:**

Occupations included in this category require completion of a university-level degree in basic medical education plus postgraduate clinical training in a medical specialization (except general practice) or equivalent. Resident medical officers training as specialist practitioners (except general practice) are included here. Although in some countries 'stomatology' may be considered as a medical specialization, stomatologists should be included in Unit group -2261, Dentists. Medical research professionals who participate in biomedical research using living organisms and do not undertake clinical practice are classified in Unit group 2131, Biologists, botanists, zoologists and related professionals.

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>21</b>	<b>Sub-major Group</b>	<b>Science and engineering professionals</b>
<b>221</b>	<b>Minor Group</b>	<b>Medical doctors</b>

<b>Unit Group</b>	<b>Sub unit Group</b>	<b>Description</b>
<b>2211</b>	<b>Generalist medical practitioners</b>	
	22111	Physician/ Physician, medical service(school)
	22112	Family medical practitioner
	22113	Doctor, medical (general)
	22114	Medical officer (general)
	22115	Primary health physician
	22116	Superintendent, medical
	22117	Consultant, medical insurance
	22118	Doctor, medical (medical insurance consultancy)/ Consultant, medical: general practice/Doctor-therapist, district medical/Intern, medical/Officer, resident medical: specializing in general practice/Physician, general medicine/Practitioner, general/Practitioner, medical/Registrar, medical: general medicine/Resident, medical: general medicine
<b>2212</b>	<b>Specialist medical practitioners</b>	
	22121	Anesthetist / Anesthesiologist/ Doctor, anaesthetics/ Registrar,
	22122	Cardiologist / Surgeon, cardiology/Surgeon, cardiothoracic
	22123	Dermatologist /Registrar, dermatology
	22124	Gynaecologist / Registrar, gynaecology/ Doctor, obstetrics/ Doctor, pediatrics/ Obstetrician/ Neonatologist/ Registrar, obstetrics/ Registrar, pediatrics/ Paediatrician/ Pediatrician/Physician, specialist
	22125	Haematologist/ Malariologist/ Allergist, clinical
	22126	Otorhinologist (E.N.T)/ Registrar, otorhinolaryngology/ Otolaryngologist/ Otolologist/ Otorhinolaryngologist
	22127	Ophthalmologist/ Pathologist/ Pathologist, clinical/ Registrar, ophthalmology
	22128	Radiologist/ Surgeon/Specialist, emergency medicine/Specialist, intensive care/Specialist, internal medicine/ /Specialist, preventive medicine/Surgeon, medical/Surgeon, neurosurgery/Surgeon, orthopedic/Surgeon, osteopathic/Surgeon, plastic/Surgeon, thoracic/ Doctor, neurology/ Registrar, neurology/ Neurologist/ Neurosurgeon/ Registrar, radiology/ Neuropathologist/Surgeon any (except dental)

Unit Group	Sub-unit Group	Description
	22129	Consultant, endocrinology/Consultant, medical: specialist /Doctor, psychiatry Specialist, medical Endocrinologist/Gastroenterologist/Geriatician/Immunologist, clinical/Intern, medical: in specialist /Officer, medical: specialist/Officer, resident medical: in specialist training/Oncologist Oncologist, radiation/Physician, specialist: internal medicine/Physician, specialist: nuclear medicine/Physician, sports/Pneumologist/Practitioner, medical: specialist (public health)/Registrar, endocrinology/Registrar, gastroenterology/Registrar, geriatrics/Registrar, intensive care/Registrar, internal medicine/Registrar, medical: specialist /Registrar, oncology/ Registrar/Registrar, psychiatry/Rhinologist/Laryngologist/ Nephrologist/ medical/specialist/ Doctor, medical (any specialism)/ <b>Doctor Otorhinolaryngology/ Registrar gynecology/ Resident, medical specialist/Rheumatologist/Rhinologist n.e.c</b>

## 222 Nursing and midwifery professionals

Nursing and midwifery professionals provide treatment and care services for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth. They assume responsibility for the planning, management and evaluation of the care of patients, including the supervision of other health care workers, working autonomously or in teams with medical doctors and others in the practical application of preventive and curative measures.

Tasks performed usually include:

Assessing, planning, providing and evaluating nursing and midwifery care for patients according to the practice and standards of modern nursing and midwifery; coordinating the care of patients in consultation with other health professionals and members of health teams; developing and implementing care plans, treatments and therapies, including administering medications; monitoring and alleviating pain and discomfort experienced by patients using a variety of therapies, including the use of pain-killing drugs; monitoring patients' health condition, including progress of pregnancy and responses to curative treatment; providing information to patients, families and communities about a range of health issues, including prevention of illness, treatment and care, pregnancy and childbirth, and other topics; supervising and coordinating the work of other health care workers; conducting research on nursing and midwifery practice and preparing scientific papers and reports.

Occupations in this minor group are classified into the following unit groups:

- 2221 Nursing professionals
- 2222 Midwifery professionals

### 2221 Nursing professionals

Nursing professionals provide treatment, support and care services for people who are in need of nursing care due to the effects of ageing, injury, illness or other physical or mental impairment, or potential risks to health. They assume responsibility for the planning and management of the care of patients, including the supervision of other health care workers, working autonomously or in teams with medical doctors and others in the practical application of preventive and curative measures.

Tasks include -

- (a) planning, providing and evaluating nursing care for patients according to the practice and standards of modern nursing;

- (b) coordinating the care of patients in consultation with other health professionals and members of health teams;
- (c) developing and implementing care plans for the biological, social, and psychological treatment of patients in collaboration with other health professionals;
- (d) planning and providing personal care, treatments and therapies including administer in medications, and monitoring responses to treatment or care plan;
- (e) cleaning wounds and applying surgical dressings and bandages
- (f) monitoring pain and discomfort experienced by patients and alleviating pain using a variety of therapies, including the use of pain-killing drugs;
- (g) planning and participating in health education programmes, health promotion and nurse education activities in clinical and community settings;
- (h) answering questions from patients and families and providing information about prevention of ill- health, treatment and care;
- (i) supervising and coordinating the work of other nursing, health and personal care workers;
- (j) conducting research on nursing practices and procedures and disseminating findings such as through scientific papers and reports.

Examples of the occupations classified here:

- Clinical nurse
- District nurse
- Nurse anesthetists
- Nurse educator
- Nurse practitioner
- Professional Nurse
- Public health nurse
- Specialist nurse

Some related occupations classified elsewhere:

- Professional midwife - 2222
- Paramedical practitioner - 2240
- University lecturer - 2310
- Vocational education teacher - 2320
- Associate professional nurse - 3221
- Associate professional midwife - 3222
- Nursing aide (hospital) - 5321

#### Notes

The distinction between professional and associate professional nurses should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that predominate in the country are not the main factor in making this distinction, as training arrangements for nurses vary widely between countries and have varied over time within countries. Nurses who combine nursing education or research with clinical nursing practice are classified in Unit group 2221, Nursing professionals. Nursing researchers who participate in biomedical research using living organisms and do not undertake clinical nursing practice are classified in Unit group 2131, Biologists, botanists, zoologists and related professionals.

## **2222 Midwifery professionals**

Midwifery professionals plan, manage, provide and evaluate midwifery care services before, during and after pregnancy and childbirth. They provide delivery care for reducing health risks to women and newborn children, working autonomously or in teams with other health care providers.



Tasks include –

- (a) planning, providing and evaluating care and support services for women and babies before, during and after pregnancy and childbirth according to the practice and standards of modern midwifery care;
- (b) providing advice to women and families and conducting community education on health, nutrition, hygiene, exercise, birth and emergency plans, breastfeeding, infant care, family planning and contraception, lifestyle and other topics related to pregnancy and childbirth;
- (c) assessing progress during pregnancy and childbirth, managing complications and recognizing warning signs requiring referral to a medical doctor with specialized skills in obstetrics;
- (d) monitoring the health status of newborns, managing complications and recognizing warning signs requiring referral to a medical doctor with specialized skills in neonatology
- (e) monitoring pain and discomfort experienced by women during labour and delivery and alleviating pain using a variety of therapies, including the use of pain-killing drugs;
- (f) reporting births to government authorities to meet legal and professional requirements;
- (g) conducting research on midwifery practices and procedures and disseminating findings such as through scientific papers and reports;
- (h) planning and conducting midwifery education activities in clinical and community settings.

Examples of the occupations classified here:

- Professional midwife

Some related occupations classified elsewhere:

- Professional Nurse - 2221
- Associate professional nurse - 3221
  
- Associate professional midwife - 3222
- Nursing aide (hospital) – 5321

#### Notes

The distinctions between nursing and midwifery professionals and associate professionals should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that predominate in the country are not the main factor in making this distinction, as training arrangements for nurses and midwives vary widely between countries and have varied over time within countries. Midwives who combine midwifery education or research with clinical midwifery practice are classified in Unit group 2222, Midwifery professionals.

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>22</b>	<b>Sub-major Group</b>	<b>Health professionals</b>
<b>222</b>	<b>Minor Group</b>	<b>Nursing and midwifery professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2221</b>		<b>Nursing professionals</b>
	22211	Nurse, clinical
	22212	Nurse, educator
	22213	Master, ward (hospital)
	22214	Nurse, (head) (professional)
	22215	Nurse (professional), any specialism
	22216	Officer, principal nursing (professional)
	22217	Sister, nursing (professional)
	22218	Anaesthetist, nurse/Consultant, nurse: clinical/Nurse, charge/Nurse, consultant: clinical/Nurse, district/Nurse, industrial/Nurse, operating theatre/Nurse, orthopedic Nurse, public health/Nurse, registered/Nurse, specialist/Practitioner, nurse, Sister, operating theatre
<b>2222</b>		<b>Midwife professional</b>
	22221	Midwife, professional / Educator, midwife/Practitioner, midwife

## **223 Traditional and complementary medicine professionals**

Traditional and complementary medicine professionals prevent, diagnose and treat illness, disease, injury, and other physical and mental impairments and maintain general health in humans by applying knowledge, skills and practices acquired through extensive study of the theories, beliefs and experiences, originating in specific cultures.

Tasks performed usually include:

Conducting physical examinations of patients and interviewing them and their families to determine their health status; developing and implementing treatment plans for physical, mental and psychosocial ailments using applications such as acupuncture, ayurvedic, homoeopathic and herbal medicine; evaluating and documenting patients' progress through treatment plans; providing health, nutrition and lifestyle advice to individuals, families and communities; prescribing and preparing traditional medicines, such as herbal, plant, mineral and animal extracts, to stimulate the body's capacity for self-healing; exchanging information about patients with other health care workers as needed to ensure continuing and comprehensive health care; conducting research into traditional and complementary medicines and treatments and disseminating findings such as through scientific papers and reports.

Occupations in this minor group are classified into the following unit groups:

2230 Traditional and complementary medicine professionals

### **2230 Traditional and complementary medicine professionals**

Traditional and complementary medicine professionals prevent, diagnose and treat illness, disease, injury, and other physical and mental impairments and maintain general health in humans by applying

knowledge, skills and practices acquired through extensive study of the theories, beliefs and experiences, originating in specific cultures

Tasks include:

- (a) conducting physical examinations of patients and interviewing them and their families to determine their health status;
- (b) developing and implementing treatment plans for physical, mental and psychosocial ailments using applications such as acupuncture, ayurvedic, homoeopathic and herbal medicine;
- (c) evaluating and documenting patients' progress through treatment plans;
- (d) providing health, nutrition and lifestyle advice to individuals, families and communities;
- (e) prescribing and preparing traditional medicines, such as herbal, plant, mineral and animal extracts, to stimulate the body's capacity for self-healing;
- (f) exchanging information about patients with other health care workers as needed to ensure continuing and comprehensive health care;
- (g) conducting research into traditional and complementary medicines and treatments and disseminating findings such as through scientific papers and reports.

Examples of the occupations classified here:

- Acupuncturist
- Ayurvedic practitioner
- Chinese herbal medicine practitioner
- Homeopath
- Naturopath
- Unani practitioner

Some related occupations classified elsewhere:

- Herbalist - 3230
- Witch doctor - 3230
- Village healer - 3230
- Scraping and cupping therapist - 3230
- Acupressure therapist - 3255
- Shiatsu therapist - 3255
- Hydro therapist - 3255
- Chiropractor - 3259
- Osteopath - 3259
- Faith healer – 3413

#### Notes

Occupations in traditional and complementary medicine whose practice requires an extensive understanding of the benefits and applications of traditional and complementary therapies, developed as the result of extended formal study of these techniques as well as human anatomy and elements of modern medicine, are classified in Unit group 2230, Traditional and complementary medicine professionals. Those whose practice requires a less extensive understanding based on relatively short periods of formal or informal education and training, or informally through the traditions and practices of the communities where they originated, are included in Unit group 3230, Traditional and complementary medicine associate professionals. Practitioners working in the singular application of approaches to herbal medicines, spiritual therapies or manual therapeutic techniques are excluded from Unit group 2230.

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>22</b>	<b>Sub-major Group</b>	<b>Health professionals</b>
<b>223</b>	<b>Minor Group</b>	<b>Traditional and complementary medicine professionals</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2230</b>		<b>Traditional and complementary medicine professionals</b>
	22301	Doctor, homoeopathic/ Homeopath/ Practitioner, homeopathic
	22302	Hakim/Veids/Tabib/ Therapist, unani/Practitioner, tcm
	22303	Unani practitioner
	22304	Acupuncturist
	22305	Chinese herbal medicine practitioner/ Practitioner, chinese medicine/ Specialist, chinese medicine/ Doctor, chinese medicine Herbalist, chinese medicine
	22309	Traditional medicine professionals / Doctor, naturopathy/Hypnotherapist/ Naturopath/Practitioner, acupuncture/Practitioner, ayurvedic, n.e.c

## **224 Paramedical practitioners**

Paramedical practitioners provide advisory, diagnostic, curative and preventive medical services for humans more limited in scope and complexity than those carried out by medical doctors. They work autonomously or with limited supervision of medical doctors, and apply advanced clinical procedures for treating and preventing diseases, injuries and other physical or mental impairments common to specific communities.

Tasks performed usually include:

Conducting physical examinations of patients and interviewing them and their families to determine their health status and recording patients' medical information; performing basic or more routine medical and surgical procedures, including prescribing and administering treatments, medications and other preventive or curative measures, especially for common diseases and disorders; administering or ordering diagnostic tests, such as x-ray, electrocardiogram, and laboratory tests; performing therapeutic procedures, such as injections, immunizations, suturing and wound care, and infection management; assisting medical doctors with complex surgical procedures; monitoring patients' progress and response to treatment, and identifying signs and symptoms requiring referral to medical doctors; advising patients and families on diet, exercise and other habits which aid prevention or treatment of disease and disorders; identifying and referring complex or unusual cases to medical doctors, hospitals or other places for specialized care; reporting births, deaths and notifiable diseases to government authorities to meet legal and professional reporting requirements.

Occupations in this minor group are classified into the following unit groups:

2240 Paramedical practitioners

### **2240 Paramedical practitioners**

Paramedical practitioners provide advisory, diagnostic, curative and preventive medical services for humans more limited in scope and complexity than those carried out by medical doctors. They work autonomously, or with limited supervision of medical doctors, and apply advanced clinical procedures for treating and preventing diseases, injuries and other physical or mental impairments common to specific communities.

Tasks include -

- (a) conducting physical examinations of patients and interviewing them and their families to determine their health status, and recording patients' medical information;
- (b) performing basic or more routine medical and surgical procedures, including prescribing and administering treatments, medications and other preventive or curative measures, especially for common diseases and disorders;
- (c) administering or ordering diagnostic tests, such as x-ray, electrocardiogram, and laboratory tests;
- (d) performing therapeutic procedures, such as injections, immunizations, suturing and wound care, and infection management;
- (e) assisting medical doctors with complex surgical procedures;
- (f) monitoring patients' progress and response to treatment, and identifying signs and symptoms requiring referral to medical doctors;
- (g) advising patients and families on diet, exercise and other habits which aid prevention or treatment of disease and disorders;
- (h) identifying and referring complex or unusual cases to medical doctors, hospitals or other places for specialized care;
- (i) reporting births, deaths and notifiable diseases to government authorities to meet legal and professional reporting requirements.

Examples of the occupations classified here:

- Advanced care paramedic
- Clinical officer (paramedical)
- Feldscher
- Primary care paramedic
- Surgical technician

Some related occupations classified elsewhere:

- General practitioner - 2211
- Surgeon - 2212
- Medical assistant - 3256
- Emergency paramedic - 3258

#### **Notes**

Occupations included in this category normally require completion of tertiary-level training in theoretical and practical medical services. Workers providing services limited to emergency treatment and ambulance practice are classified in unit group 3258, Ambulance workers.

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>22</b>	<b>Sub-major Group</b>	<b>Health professionals</b>
<b>224</b>	<b>Minor Group</b>	<b>Paramedical practitioners</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2240</b>		<b>Paramedical practitioners</b>
	22401	Advanced care paramedic
	22402	Clinical officer (paramedical)
	22403	Feldscher
	22404	Primary care paramedic
	22405	Surgical technician/ <b>Technician (theatre/surgical)</b>
	22406	Assistant, clinical: diagnosing and treating patients/Assistant, medical: diagnosing and treating patients/Technician, caesarean section

## **225 Veterinarians**

Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialize in the treatment of a particular animal group or in a particular specialty area, or provide professional services to commercial firms producing biological and pharmaceutical products

Tasks performed usually include:

Determining the presence and nature of abnormal conditions by physical examination, laboratory testing and through diagnostic imaging techniques including radiography and ultrasound; treating animals medically and surgically, and administering and prescribing drugs, analgesics, and general and local anaesthetics; performing surgery, dressing wounds and setting broken bones; rendering obstetric services to animals; participating in programs designed to prevent the occurrence and spread of animal diseases; inoculating animals against, and testing for, infectious diseases and notifying authorities of outbreaks of infectious animal diseases; performing autopsies to determine cause of death; advising clients on health, nutrition and feeding, hygiene, breeding and care of animals.

Occupations in this minor group are classified into the following unit groups:

2250 Veterinarians

### **2250 Veterinarians**

Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialize in the treatment of a particular animal group or in a particular specialty area, or provide professional services to commercial firms producing biological and pharmaceutical products.

Tasks include -

- (a) determining the presence and nature of abnormal conditions by physical examination, laboratory testing and through diagnostic imaging techniques including radiography and

- ultrasound;
- (b) treating animals medically and surgically, and administering and prescribing drugs, analgesics, and general and local and aesthetics;
- (c) performing surgery, dressing wounds and setting broken bones;
- (d) rendering obstetric and dental services to animals;
- (e) participating in programs designed to prevent the occurrence and spread of animal diseases;
- (f) inoculating animals against, and testing for, infectious diseases and notifying authorities of outbreaks of infectious animal diseases;
- (g) performing autopsies to determine cause of death;
- (h) advising clients on health, nutrition and feeding, hygiene, breeding and care of animals;
- (i) providing euthanasia services for animals.

Examples of the occupations classified here:

- Animal pathologist
- Veterinarian
- Veterinary epidemiologist
- Veterinary intern
- Veterinary surgeon

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>22</b>	<b>Sub-major Group</b>	<b>Health professionals</b>
<b>225</b>	<b>Minor Group</b>	<b>Veterinarians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2250</b>		<b>Veterinarians</b>
	22501	Pharmacologist, veterinary
	22502	Specialist, dairy
	22503	Veterinarian/ Veterinary Doctor
	22504	Veterinarian, epidemiology / Intern, veterinary
	22505	Veterinarian, public health
	22506	Surgeon, veterinary
	22507	Pathologist, veterinary

## **226 Other health professionals**

Other health professionals provide health services related to dentistry, pharmacy, environmental health and hygiene, occupational health and safety, physiotherapy, nutrition, hearing, speech, vision and rehabilitation therapies. This minor group includes all human health professionals, except doctors, traditional and complementary medicine practitioners, veterinarians, nurses, midwives and paramedical professionals.

Tasks performed may include:

Assessing patients or clients to determine the nature of the disorder, illness or problem; developing and implementing treatment plans and evaluating and documenting patients' progress; diagnosing and treating diseases, injuries and malformations of the teeth, mouth, jaws and associated tissues; storing, preserving, compounding testing and dispensing medicinal products and counselling on their proper use and adverse effects; assessing, planning and implementing programs to recognize, monitor and

control environmental factors that can potentially affect human health, to improve or restore human motor functions, maximize movement ability, relieve pain syndromes, or to enhance the impact of food and nutrition on human health; diagnosing, managing and treating physical disorders affecting human hearing, communication or swallowing, or disorders of the eyes and visual system; advising clients about continued treatment and care and providing or arranging rehabilitation services; referring clients to or conferring with other health professionals or associate professionals if required.

Occupations in this minor group are classified into the following unit groups:

2261	Dentists
2262	Pharmacists
2263	Environmental and occupational health and hygiene professionals
2264	Physiotherapists
2265	Dieticians and nutritionists
2266	Audiologists and speech therapists
2267	Optometrists and ophthalmic opticians
2269	Health professionals not elsewhere classified

## **2261 Dentists**

Dentists diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry. They use a broad range of specialized diagnostic, surgical and other techniques to promote and restore oral health.

Tasks include -

- (a) diagnosing diseases, injuries, irregularities and malformations of teeth and associated structures in the mouth and jaw using a range of methods such as radiographs, salivary tests and medical histories;
- (b) providing preventative oral health care such as periodontal treatments, fluoride applications and oral health promotion;
- (c) administering anesthetics to limit the amount of pain experienced by patients during procedures
- (d) prescribing medication for relief of ongoing pain after procedures
- (e) providing restorative oral care such as implants, complex crown and bridge restorations, and orthodontics, and repairing damaged and decayed teeth;
- (f) providing surgical treatments such as extraction of teeth, biopsy of tissue, and performing orthodontic treatment;
- (g) measuring and taking impressions of patients' jaws and teeth in order to determine the shape and size of dental prostheses;
- (h) designing, making, and fitting prosthodontic appliances such as space maintainers, bridges, and dentures, or writing fabrication instructions or prescriptions for dental prosthetic technicians;
- (i) restoring oral function with removable and fixed oral prostheses;
- (j) assisting in diagnosing general diseases having oral manifestations such as diabetes;
- (k) educating patients and families on dental hygiene, nutrition and other measures to take care of oral health;
- (l) supervising dental hygienists, dental assistants and other staff.

Examples of the occupations classified here:

- Dental Practitioner
- Dental Surgeon
- Dentist
- Endodontist



- Oral and Maxillofacial Surgeon
- Oral Pathologist
- Orthodontist
- Paedodontist
- Periodontist
- Prosthodontist
- Stomatologist

#### Notes

Occupations included in this category normally require completion of university-level training in theoretical and practical dentistry or a related field. Although in some countries 'stomatology' and 'dental, oral and maxillofacial surgery' may be considered as medical specializations, occupations in these fields should always be classified here.

## 2262 Pharmacists

Pharmacists store, preserve, compound, and dispense medicinal products and counsel on the proper use and adverse effects of drugs and medicines following prescriptions issued by medical doctors and other health professionals. They contribute to researching, testing preparing, prescribing and monitoring medicinal therapies for optimizing human health.

Tasks include -

- (a) receiving prescriptions for medicinal products from medical doctors and other health professionals, checking patients' medicine histories, and ensuring proper dosage and methods of administration and drug compatibility before dispensing;
- (b) preparing or supervising the preparation and labeling of liquid medicines, ointments, powders, tablets and other medications to fill prescriptions;
- (c) providing information and advice to prescribers and clients regarding drug interactions, incompatibility and contra-indications, side effects, dosage and proper medication storage;
- (d) collaborating with other health care professionals to plan, monitor, review, and evaluate the quality and effectiveness of the medicine therapy of individual patients, and the effectiveness of particular drugs or therapies;
- (e) maintaining prescription files and recording issue of narcotics, poisons and habit-forming drugs in accordance with legal and professional requirements;
- (f) storing and preserving vaccines, serums and other drugs subject to deterioration;
- (g) advising clients on and supplying non-prescription medicines and diagnostic and therapeutic aids for common conditions;
- (h) supervising and coordinating the work of pharmacy technicians, pharmacy interns and pharmacy sales assistants;
- (i) conducting research to develop and improve pharmaceuticals, cosmetics and related chemical products;
- (j) conferring with chemists, engineering professionals and other professionals about manufacturing techniques and ingredients;
- (k) testing and analyzing drugs to determine their identity, purity and strength in relation to specified standards;
- (l) evaluating labels, packaging and advertising of drug products;
- (m) developing information and risks of particular drugs.

Examples of the occupations classified here:

- Dispensing chemist
- Hospital pharmacist
- Industrial pharmacist
- Retail pharmacist

Some related occupations classified elsewhere:

- Pharmacologist - 2131
- Pharmaceutical technician – 3213

## **2263 Environmental and occupational health and hygiene professionals**

Environmental and occupational health and hygiene professionals assess, plan and implement programs to recognize, monitor and control environmental factors that can potentially affect human health, to ensure safe and healthy working conditions, and to prevent disease or injury caused by chemical, physical, radiological and biological agents or ergonomic factors.

Tasks include -

- developing, implementing and reviewing programs and policies to minimize potential environmental and occupational risks to health and safety;
- preparing and implementing plans and strategies for the safe, economic and suitable disposal of commercial, industrial, medical and household wastes;
- implementing prevention programs and strategies for communicable diseases, food safety, waste water treatment and disposal systems, recreation and domestic water quality, contaminated and hazardous substances;
- identifying, reporting and documenting hazards, and assessing and controlling risks in the environment and workplace and advising on compliance with relevant law and regulations;
- developing, implementing and monitoring programs to minimize workplace and environmental pollution involving chemical, physical and biological hazards;
- advising methods to prevent, eliminate, control, or reduce the exposure of workers, students, the public and the environment to radiological and other hazards;
- promoting ergonomic principles within the workplace such as matching furniture, equipment and work activities to the needs of employees;
- providing education, information, training, and advice to persons at all levels on aspects of occupational hygiene and environmental health;
- recording and investigating injuries and equipment damage, and reporting safety performance;
- coordinating arrangements for the compensation, rehabilitation and return to work of injured workers.

Examples of the occupations classified here:

- Environmental Health Officer
- Occupational Health and Safety Adviser
- Occupational Hygienist
- Radiation Protection Expert

Some related occupations classified elsewhere:

- Environmental protection professional - 2133
- Specialist medical practitioner (public health) - 2212
- Specialist nurse (public health) - 2221
- Occupational therapist - 2269
- Health inspector - 3257
- Occupational health and safety inspector - 3257
- Sanitarian - 3257
- Sanitary inspector - 3257

### **Notes**

Professionals who assess, plan and implement programmes to monitor or control the impact of human activities on the environment are classified in unit group 2133, Environmental protection professionals.

## **2264    Physiotherapists**

Physiotherapists assess, plan and implement rehabilitative programs that improve or restore human motor functions, maximize movement ability, relieve pain syndromes, and treat or prevent physical challenges associated with injuries, diseases and other impairments. They apply a broad range of physical therapies and techniques such as movement, ultrasound, heating, laser and other techniques.

Tasks include –

- (a) administering muscle, nerve, joint and functional ability tests to identify and assess physical problems of patients;
- (b) establishing treatment goals with patients and designing treatment programs to reduce physical pain, strengthen muscles, improve cardiothoracic, cardiovascular and respiratory functions, restore joint mobility, and improve balance and coordination;
- (c) developing, implementing and monitoring programs and treatments using the therapeutic properties of exercise, heat, cold, massage, manipulation, hydrotherapy, electrotherapy, ultraviolet and infra-red light and ultrasound in the treatment of patients;
- (d) instructing patients and their families in procedures to be continued outside clinical settings;
- (e) recording information on patients' health status and responses to treatment in medical records-keeping systems, and sharing information with other health professionals as required to ensure continuing and comprehensive care;
- (f) developing and implementing programmes for screening and prevention of common physical ailments and disorders;
- (g) supervising the work of physiotherapy assistants and others.

Examples of the occupations classified here:

- Geriatric physical therapist,
- Paediatric physical therapist,
- Orthopaedic physical therapist
- Physiotherapist

Some related occupations classified elsewhere:

- Podiatrist - 2269
- Occupational therapist - 2269
- Acupressure therapist - 3255
- Hydro therapist - 3255
- Massage therapist - 3255
- Physiotherapy technician - 3255
- Shiatsu therapist - 3255
- Chiropractor - 3259
- Osteopath – 3259

## **2265    Dieticians and nutritionists**

Dieticians and nutritionists assess, plan and implement programs to enhance the impact of food and nutrition on human health.

Tasks include -

- (a) instructing individuals, families and communities on nutrition, the planning of diets and preparation of food to maximize health benefits and reduce potential risks to health;
- (b) planning diets and menus, supervising the preparation and serving of meals, and monitoring food intake and quality to provide nutritional care in settings offering food services;
- (c) compiling and assessing data relating to health and nutritional status of individuals, groups

- and communities based on nutritional values of food served or consumed;
- (d) planning and conducting nutrition assessments, intervention programmes, and education and training to improve nutritional levels among individuals and communities;
- (e) consulting with other health professionals and care providers to manage the dietary and nutritional needs of patients;
- (f) developing and evaluating food and nutrition products to meet nutritional requirements;
- (g) conducting research on nutrition and disseminating the findings at scientific conferences and in other settings.

Examples of the occupations classified here:

- Clinical dietician
- Food service dietician
- Nutritionist
- Public health nutritionist
- Sports nutritionist

## **2266 Audiologists and speech therapists**

Audiologists and speech therapists evaluate, manage and treat physical disorders affecting human hearing, speech, communication and swallowing. They prescribe corrective devices or rehabilitative therapies for hearing loss, speech disorders, and related sensory and neural problems and provide counselling on hearing safety and communication performance.

Tasks include -

- (a) evaluating hearing, speech and language performance in patients to determine the nature of hearing and communication disorders;
- (b) administering hearing or speech/language tests or other examinations using specialized diagnostic instruments and equipment, and interpreting test results alongside other medical, social and behavioral diagnostic data to determine appropriate courses of treatment ;
- (c) planning, directing and participating in counselling, screening, speech rehabilitation and other programs related to hearing and communication;
- (d) prescribing hearing aids and other assistive devices according to patients' needs and instructing them in their use;
- (e) planning and conducting treatment programs to manage physical disorders affecting speech and swallowing in patients such as stuttering and feeding disorders ;
- (f) counselling and guiding hearing and/or language-impaired individuals, their families, teachers and employers;
- (g) referring patients and families to additional medical or educational services if needed.

Examples of the occupations classified here:

- Audiologist
- Language therapist
- Speech therapist
- Speech pathologist

## **2267 Optometrists and ophthalmic opticians**

Optometrists and ophthalmic opticians provide diagnosis, management and treatment services for disorders of the eyes and visual system. They counsel on eye care and prescribe optical aids or other therapies for visual disturbance.

Tasks include -

- (a) examining patients' eyes and conducting diagnostic tests to assess ocular health and determine the nature and extent of vision problems and abnormalities;

- (b) testing visual function using specialized instruments and equipment for measuring visual acuity and refractive error, function of visual pathways, visual fields, eye movements, freedom of vision and intraocular pressure;
- (c) detecting, diagnosing and managing eye disease, including prescribing medications for the treatment of eye disease;
- (d) consulting with and referring patients to ophthalmologists or other health professionals if additional medical treatment is necessary;
- (e) detecting and diagnosing eye movement disorders and defects of binocular function, and planning and managing treatment programs, including counselling patients in eye exercises to coordinate movement and focusing of eyes;
- (f) prescribing corrective eyeglasses, contact lenses and other vision aids, and checking optical devices for performance, safety, comfort and lifestyle;
- (g) advising on visual health matters such as contact lens care, vision care for the elderly, optics, visual ergonomics, and occupational and industrial eye safety.

Examples of the occupations classified here:

- Ophthalmic Optician
- Optometrist
- Orthoptist

Some related occupations classified elsewhere:

- Ophthalmologist - 2212
- Dispensing optician – 3254

## **2269 Health professionals not elsewhere classified**

This unit group covers health professionals not classified elsewhere in sub-major group 22, Health professionals. For instance, the group includes occupations such as podiatrists, occupational therapist and other health professionals.

In such cases tasks would include -

- (a) interviewing patients and conducting diagnostic tests to determine their health status and the nature of physical or mental disorders, illnesses or other health problems;
- (b) developing and implementing treatment plans for injuries, illnesses and other physical and mental impairments
- (c) evaluating and documenting patients' progress through treatment plans, and referring patients and families to medical doctors or other health care providers for specialized, rehabilitative or other care services as needed;
- (d) assessing functional limitations of clients resulting from illness, disability or other impairment, and providing therapy;
- (e) recommending environmental adaptations in the home, leisure, work and school environments on an individual or group basis to enable them to perform their daily activities and occupations;
- (f) planning and implementing therapeutic programs on an individual and group basis for improving and maintaining physical, cognitive, emotional and social functioning, including through the use of arts and crafts, dance and movement, music and other recreational activities;
- (g) identifying and prescribing treatments for conditions affecting the foot, ankle and related structures of the leg due to illness, disease or other physical impairment, and prescribing corrective footwear and advising on foot care to manage foot ailments;

- (h) performing minor surgical procedures such as on the foot and ankles.

Examples of the occupations classified here:

- Arts therapist
- Dance and movement therapist
- Occupational therapist
- Podiatrist
- Recreational therapist

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>22</b>	<b>Sub-major Group</b>	<b>Health professionals</b>
<b>226</b>	<b>Minor Group</b>	<b>Other health professionals</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2261</b>		<b>Dentists</b>
	22611	Dentist/ Dentist (public health)
	22612	Orthodontist
	22613	Pedodontist/Prosthodontist/ Endodontist
	22614	Dentist, oral surgery
	22615	Pathologist, oral
	22616	Oral and Maxillofacial Surgeon//Practitioner dental/Prosthodontis/Stomatologist/ Surgeon, dental/Surgeon, maxillofacial/Surgeon, oral
<b>2262</b>		<b>Pharmacists</b>
	22621	Druggist
	22622	Pharmacist/ Pharmacist (hospital)
	22623	Pharmacist, industrial
	22624	Pharmacist, wholesale/retail
	22625	Dispensing chemist
	22626	Chemist, hospital/Chemist, retail/Intern, pharmacy/Dawasaz
<b>2263</b>		<b>Environmental and occupational health and hygiene professionals</b>
	22631	Professionals, health (except nursing)
	22632	Environmental health officer
	22633	Occupational health and safety advisor
	22634	Occupational hygienist
	22635	Radiation protection expert

Unit Group	Sub-unit Group	Description
	22636	Adviser, environmental health/Adviser, occupational health and safety Adviser, occupational hygiene/Adviser, radiation protection/Consultant, environmental health/Consultant, occupational health and safety/Consultant, occupational hygiene/Consultant, radiation protection/Expert, radiation protection/Hygienist, occupational /Officer, environmental health/Officer, occupational health and safety/Officer, occupational hygiene/Officer, personnel: safety/Officer, public health/Officer, radiation protection
<b>2264</b>		<b>Physiotherapists</b>
	22641	Physiotherapist
	22642	Orthopaedic physical therapist
	22643	Paediatric physical therapist,
	22644	Geriatric physical therapist,
	22645	Therapist, manipulative /Therapist, physical
<b>2265</b>		<b>Dieticians and nutritionists</b>
	22651	Consultant, dietetic (food processing)
	22652	Dietician (therapeutic)
	22653	Nutritionist (public health/ Sports)
	22654	Consultant, dietetic/Audiometrist
<b>2266</b>		<b>Audiologists and speech therapists</b>
	22661	Audiologist
	22662	Language therapist
	22663	Speech therapist
	22664	Speech pathologist
	22665	Orthoepist/Pathologist, speech/Orthoptist
<b>2267</b>		<b>Optometrists and ophthalmic opticians</b>
	22671	Optician, ophthalmic
	22672	Optometrist
	22673	Orthoepist
	22674	Orthophonist
<b>2269</b>		<b>Health professionals not elsewhere classified</b>
	22691	Podiatrist
	22692	Therapist, inhalation
	22693	Therapist, occupational
	22694	Therapist, recreational
	22695	Dance and movement therapist/ Gymnast
	22697	Chiropodist/Chiropractor/Doctor, chiropractic/Gymnast, remedial/Therapist, arts/Therapist, blind/Therapist, drama/Therapist, music/Therapist, orientation of the blind/Therapist, poetry/speech
	22699	Professionals, health (except nursing) n.e.c.

## **23 Teaching professionals**

Teaching professionals teach the theory and practice of one or more disciplines at different educational levels, conduct research and improve or develop concepts, theories and operational methods pertaining to their particular discipline, and prepare scholarly papers and books.

Tasks performed by workers in this sub-major group usually include:

Conducting classes, courses, or tutorials at a particular educational level, for educational and vocational purposes, including private lessons; conducting adult literacy programmes; teaching and educating persons learning difficulties or special needs; designing and modifying curricula; inspecting and advising on teaching methods and aids; participating in decisions concerning the organization of teaching and related activities at schools and universities; conducting research in particular subjects to improve or develop concepts, theories or operational methods for application in industrial and other fields; preparing scholarly papers and books. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 231 University and higher education teachers
- 232 Vocational education teachers
- 233 Secondary education teachers
- 234 Primary school and early childhood teachers
- 235 Other teaching professionals

### **231 University and higher education teachers**

University and higher education teachers prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research, and prepare scholarly papers and books

Tasks performed usually include:

Designing and modifying curricula and preparing courses of study in accordance with requirements; preparing and delivering lectures and conducting tutorials, seminars and laboratory experiments; stimulating discussion and independent thought among students; supervising, where appropriate, experimental and practical work undertaken by students; administering, evaluating and marking examination papers and tests; directing research of post-graduate students or other members of department; researching into and developing concepts, theories and operational methods for application in industrial and other fields; preparing scholarly books, papers or articles; participating in departmental and faculty meetings and in conferences and seminars;

Occupations in this minor group are classified into the following unit groups:

- 2310 University and higher education teachers

#### **2310 University and higher education teachers**

University and higher education teachers prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research, and prepare scholarly papers and books.

Tasks include -

- (a) designing and modifying curricula and preparing courses of study in accordance with requirements;
- (b) preparing and delivering lectures and conducting tutorials, seminars and laboratory



- experiments;
- (c) stimulating discussion and independent thought among students;
- (d) supervising, where appropriate, experimental and practical work undertaken by students;
- (e) administering, evaluating and marking examination papers and tests;
- (f) directing research of post-graduate students or other members of department;
- (g) researching into and developing concepts, theories and operational methods for application in industrial and other fields;
- (h) preparing scholarly books, papers or articles;
- (i) participating in departmental and faculty meetings and in conferences and seminars;

Examples of the occupations classified here:

- Higher education lecturer
- Professor
- University Lecturer
- University Tutor

Some related occupations classified elsewhere:

- University chancellor- 1120
- Dean - 1345
- Higher education faculty head- 1345
- Vocational education teacher – 2320

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>23</b>	<b>Sub-major Group</b>	<b>Teaching professionals</b>
<b>231</b>	<b>Minor Group</b>	<b>University and higher education teachers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2310</b>		<b>University and higher education teachers</b>
	23101	Professor/ Reader/ Lecturer, university (all subjects)
	23102	Professor/ Reader/ Lecturer, academy (all subjects)
	23103	Professor/ Lecturer, college (all subjects)
	23104	Assistant, research (audio visual)
	23105	Instructor, extension work
	23106	Instructor, civil defence training
	23107	Instructor, military science
	23108	Teacher, government department training schools
	23109	Teacher, post -secondary education (all subjects)/ Lecturer, higher education/Teacher, university/Tutor, university, n.e.c

## **232 Vocational education teachers**

Vocational education teachers teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

Tasks performed usually include:

Developing curricula and planning course content and methods of instruction; determining training needs of students or workers and liaising with individuals, industry and other education sectors to ensure provision of relevant education and training programs; presenting lectures and conducting discussions to increase students' knowledge and competence; instructing and monitoring students in the use of tools, equipment and materials and the prevention of injury and damage; observing and evaluating students' work to determine progress, provide feedback, and make suggestions for improvement; administering oral, written or performance tests to measure progress, evaluate training effectiveness and assess competency; preparing reports and maintaining records such as student grades, attendance rolls, and training activity details; supervising independent or group projects, field placements, laboratory work, or other training; providing individualized instruction and tutorial or remedial instruction; conducting on-the-job training sessions to teach and demonstrate principles, techniques, procedures, or methods of designated subjects.

Occupations in this minor group are classified into the following unit groups:

2320 Vocational education teachers

### **2320 Vocational education teachers**

Vocational education teachers teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

Tasks include -

- (a) developing curricula and planning course content and methods of instruction;
- (b) determining training needs of students or workers and liaising with individuals, industry and other education sectors to ensure provision of relevant education and training programs;
- (c) presenting lectures and conducting discussions to increase students' knowledge and competence;
- (d) instructing and monitoring students in the use of tools, equipment and materials and the prevention of injury and damage;
- (e) observing and evaluating students' work to determine progress, provide feedback, and make suggestions for improvement;
- (f) administering oral, written or performance tests to measure progress, evaluate training effectiveness and assess competency;
- (g) preparing reports and maintaining records such as student grades, attendance rolls, and training activity details;
- (h) supervising independent or group projects, field placements, laboratory work, or other training;
- (i) providing individualized instruction and tutorial or remedial instruction;
- (j) conducting on-the-job training sessions to teach and demonstrate principles, techniques, procedures, or methods of designated subjects.

Examples of the occupations classified here:

- Automotive technology instructor
- Cosmetology instructor
- Vocational education teacher

Some related occupations classified elsewhere:

- Secondary education teacher – 2330

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>23</b>	<b>Sub-major Group</b>	<b>Teaching professionals</b>
<b>232</b>	<b>Minor Group</b>	<b>Vocational education teachers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2320</b>		<b>Vocational education teachers</b>
	23201	Instructor/teacher, technical training
	23202	Instructor/teacher, vocational training
	23203	Instructor, automotive technology/Instructor, cosmetology/Instructor, vocational education/Lecturer, college: vocational education/Lecturer, vocational education

### **233 Secondary education teachers**

Secondary education teachers teach one or more subjects at secondary education level, excluding subjects intended to prepare students for employment in specific occupational areas.

Tasks performed usually include:

Designing and modifying curricula and preparing educational courses of study in accordance with curriculum guidelines; establishing and enforcing rules for behavior and procedures for maintaining order among students; preparing and giving lessons, discussions, and demonstrations in one or more subjects; establishing clear objectives for all lessons, units, and projects and communicating those objectives to students; preparing materials and classrooms for class activities; adapting teaching methods and instructional materials to meet students' varying needs and interests; observing and evaluating students' performance and behaviour; preparing, administering and marking tests, assignments and examinations to evaluate pupils' progress; preparing reports about pupils' work and conferring with other teachers and parents; participating in meetings concerning the school's educational or organizational policies; planning, organizing and participating in school activities such as excursions, sporting events and concerts.

Occupations in this minor group are classified into the following unit groups:

2330 Secondary education teachers

### **2330 Secondary education teachers**

Secondary education teachers teach one or more subjects at secondary education level, excluding subjects intended to prepare students for employment in specific occupational areas.

Tasks include -

- (a) designing and modifying curricula and preparing educational courses of study in accordance with curriculum guidelines;
- (b) establishing and enforcing rules for behavior and procedures for maintaining order among students;
- (c) preparing and giving lessons, discussions, and demonstrations in one or more subjects;
- (d) establishing clear objectives for all lessons, units, and projects and communicating those objectives to students;
- (e) preparing materials and classrooms for class activities;
- (f) adapting teaching methods and instructional materials to meet students' varying needs and

- interests;
- (g) observing and evaluating students' performance and behaviour;
- (h) preparing, administering and marking tests, assignments and examinations to evaluate pupils' progress;
- (i) preparing reports about pupils' work and conferring with other teachers and parents;
- (j) participating in meetings concerning the school's educational or organizational policies;
- (k) planning, organizing and participating in school activities such as excursions, sporting events and concerts.

Examples of the occupations classified here:

- Secondary education teacher
- High school teacher

Some related occupations classified elsewhere:

- Head teacher - 1345
- Vocational education teacher - 2330
- Schools inspector – 2352

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>23</b>	<b>Sub-major Group</b>	<b>Teaching professionals</b>
<b>233</b>	<b>Minor Group</b>	<b>Secondary education teachers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2330</b>		<b>Secondary education teachers</b>
	23301	Teacher, secondary education (all subjects)
	23302	Teachers, dar-ul-uloom
	23303	Teacher, faith (other)
	23304	Teacher, oriental schools/colleges

## **234 Primary school and early childhood teachers**

Primary school and early childhood teachers teach a range of subjects at the primary level of education and organize educational activities for children below primary school age.

Tasks performed usually include:

Preparing programme of learning and giving instruction in a range of subjects at the primary education level, planning and organizing activities designed to facilitate children's development of language, physical and social skills; preparing reports. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 2341 Primary school teachers
- 2342 Early childhood educators

## **2341      Primary school teachers**

Primary school teachers teach a range of subjects at the primary education level.

Tasks include -

- (a) preparing daily and longer term lesson plans in accordance with curriculum guidelines;
- (b) instructing children individually and in groups, using various teaching methods and materials (e.g. computers, books, games), adapting to children's varying needs;
- (c) maintaining discipline and good working habits in the classroom;
- (d) planning and conduct activities with the children such as sporting activities, concerts and excursions;
- (e) assigning and grading class work and homework;
- (f) preparing, administering, and grading tests and assignments to evaluate children's progress;
- (g) observing and evaluating children's performance and behaviour;
- (h) supervising children during classes and at other times in the school day, including the playground during breaks;
- (i) participating in staff meetings and other sessions, and conferring with other teachers concerning educational issues;
- (j) preparing for and attending parent meetings to discuss children's progress and problems.

Examples of the occupations classified here:

- Primary school teacher

Some related occupations classified elsewhere:

- Head teacher - 1345
- Schools inspector- 2351

## **2342      Early childhood educators**

Early childhood educators promote the social, physical, and intellectual development of children below primary school age through the provision of educational and play activities

Tasks include -

- (a) planning and organizing individual and group activities designed to facilitate the development of children's motor skills, cooperative and social skills, confidence and understanding;
- (b) promoting language development through story-telling, role-play, songs, rhymes and informal conversations and discussions;
- (c) leading children in activities that, provide opportunities for creative expression through the media of art, dramatic play, music and physical fitness;
- (d) observing children in order to evaluate progress and to detect signs of developmental, emotional or health related problems with parents;
- (e) observing and assessing nutritional health, welfare and safety needs of students and identifying factors which may impede students' progress;
- (f) supervising children's activities to ensure safety and resolve conflicts;
- (g) guiding and assisting children in the development of proper eating, dressing and toilet habits
- (h) discussing progress or problems of children with parents and other staff members and identifying appropriate actions and referrals to other services
- (i) establishing and maintaining collaborative relationships with other service providers working with young children.

Examples of the occupations classified here:

- Early childhood educator
- Pre-school teacher

Some related occupations classified elsewhere:

- Child care centre manager – 1341

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>23</b>	<b>Sub-major Group</b>	<b>Teaching professionals</b>
<b>234</b>	<b>Minor Group</b>	<b>Primary school and early childhood teachers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>2341</b>		<b>Primary school teachers</b>
	23411	Teacher, primary education/ reading/ writing (professional/ associate)
	23412	Master, primary education\Mistress, primary education
<b>2342</b>		<b>Early childhood educators</b>
	23421	Teacher, kindergarten/ nursery (professional/associate)
	23422	Teacher, pre-primary education (professional/associate)

#### **235 Other teaching professionals**

Other teaching professionals conduct research and advise on teaching methods, teach people with learning difficulties or special needs; teach non-native languages for migration and related purposes; give private tuition; teach arts, information technology and other subjects outside the mainstream primary, secondary and higher education systems and provide other teaching services not classified elsewhere in Sub-major group 23, Teaching professionals..

Tasks performed usually include:

Conducting research and developing or advising on teaching methods, courses and aids; teaching physically handicapped children, young persons or adults or those with learning difficulties or other with special needs, teaching non-native languages for migration purposes; teaching students in practice, theory and performance of music, drama, dance, visual and other arts; developing, scheduling and conducting training programs and courses for information technology users.

Occupations in this minor group are classified into the following unit groups:

- 2351 Education methods specialists
- 2352 Special needs teachers
- 2353 Other language teachers
- 2354 Other music teachers
- 2355 Other arts teachers
- 2356 Information technology trainers
- 2359 Teaching professionals not elsewhere classified

#### **2351 Education methods specialists**

Education methods specialists conduct research and develop or advise on teaching methods, courses and aids. They review and examine teachers' work, the functioning of educational institutions and the results achieved and recommend changes and improvements.

Tasks include -

- (a) researching into current developments in curricula, teaching methods and other educational practices, and advising on necessary changes and possible improvements;
- (b) evaluating and advising on contents of courses and methods of examination;
- (c) researching into audio-visual and other teaching aids and advising on, planning and organizing their introduction in educational establishments;
- (d) documenting subjects and courses developed, and evaluating new courses;
- (e) providing ongoing professional development, training and consultative services to teachers;
- (f) organizing and conducting workshops and conferences to train teachers in new programs and methods;
- (g) developing the structure, content and objectives of new educational courses and programs;
- (h) visiting schools periodically and conferring with administrative and teaching staff on questions relating to curricula, teaching methods, equipment and other matters;
- (i) visiting classrooms to observe teaching techniques and to evaluate teachers performance, and scholastic results obtained;
- (j) preparing reports and making recommendations to educational authorities concerning possible changes and improvements in curricula, teaching methods, and other matters.

Examples of the occupations classified here:

- Curriculum coordinator
- Curriculum developer
- Education methods specialist
- Teaching aids specialist
- School inspector

Some related occupations classified elsewhere:

- Educational psychologist – 2634
- School counselor – 2359
- Student advisor – 2359

## **2352 Special needs teachers**

Special needs teachers teach physically or mentally handicapped children, young persons, or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students.

Tasks include -

- (a) assessing students' abilities and limitations with regard to intellectual, physical, social and emotional impairments, exceptional intellectual gifts, or other specific problems;
- (b) designing or modifying curricula and preparing and delivering programmes, lessons and activities adapted to students' abilities and needs;
- (c) giving instruction on an individual or group basis using special techniques or aids appropriate to students' needs;
- (d) employing special educational strategies and techniques during instruction to improve the development of sensory- and perceptual-motor skills, language, cognition, and memory;
- (e) establishing and enforcing rules for behaviour and policies and procedures to maintain order among students;
- (f) teaching academic subjects, and practical and self-help skills to students with hearing, sight and other impairments;
- (g) stimulating and developing students' confidence interests, abilities, manual skills and coordination;
- (h) conferring with other staff members to plan and schedule lessons for special needs students;
- (i) preparing and maintaining student data and other records and submitting reports;
- (j) administering various forms of assessment and evaluating progress of each student;

- (k) conferring with students, parents, head teacher and other relevant professionals involved in the students' care to develop individual educational plans designed to promote students' development.

Examples of the occupations classified here:

- Learning Disabilities Special Education Teacher
- Learning support teacher
- Remedial teacher
- Teacher of gifted children
- Teacher of the hearing impaired
- Teacher of the sight impaired

Some related occupations classified elsewhere:

- Vocational education teacher - 2320
- Secondary school teacher - 2330
- Primary school teacher – 2341

### **2353 Other language teachers**

Other language teachers teach non-native languages to adults and children who are learning a language for reasons of migration, to fulfill employment requirements or opportunities, to facilitate participation in educational programmes delivered in a foreign language, or for personal enrichment. They work outside the mainstream primary, secondary and higher education systems, or in support of students and teachers within those systems.

Tasks include –

- (a) assessing the level of ability and the extent of language difficulties of students, and establishing students' needs and learning goals;
- (b) planning, preparing and delivering lessons and workshops for groups and individuals with content and rate of progression adapted to students' abilities and needs;
- (c) designing and producing teaching materials and adapting existing materials;
- (d) assessing students' progress;
- (e) assisting students in classroom settings where subjects are taught in a language other than the students' native language;
- (f) providing assistance to other teachers by designing special teaching programs for students still learning the main language of instruction;
- (g) assigning and correcting work, and preparing and grading exams;
- (h) assessing, recording and reporting on students' progress.

Examples of the occupations classified here:

- Intensive language teacher
- Migrant education teacher
- Practical language teacher
- Second language teacher

Some related occupations classified elsewhere:

- University lecturer - 2310
- Vocational education teacher – 2320
- Secondary school teacher - 2330
- Primary school teacher – 2341



## **2354 Other music teachers**

Other music teachers teach students in the practice, theory and performance of music outside the mainstream primary, secondary and higher education systems, but may provide private or small group tuition as an extracurricular activity in association with mainstream educational institutions.

Tasks include -

- (a) assessing the students' level of ability and determining needs and learning goals;
- (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups;
- (c) preparing and presenting material on the theory and interpretation of music;
- (d) instructing and demonstrating practical aspects of singing or of playing a particular instrument;
- (e) teaching students to read and write musical notation;
- (f) assigning exercises and teaching pieces of music relevant to students' level of ability, interests and talents;
- (g) assessing students and offering advice, criticism and encouragement;
- (h) revising curricula, course content, course materials and methods of instruction;
- (i) preparing students for examinations, performances and assessments;
- (j) arranging visits and tours to musical performances;
- (k) organizing and assisting in auditions or performances of students' work.

Examples of the occupations classified here:

- Guitar teacher (private tuition)
- Piano teacher (private tuition)
- Singing teacher (private tuition)
- Violin teacher (private tuition)

Some related occupations classified elsewhere:

- University lecturer - 2310
- Vocational education teacher – 2320
- Secondary school teacher - 2330
- Primary school teacher – 2341

## **2355 Other arts teachers**

Other arts teachers teach students in the practice, theory and performance of dance, drama, visual and other arts (excluding music) outside the mainstream primary, secondary and higher education systems, but may provide private or small group tuition as an extracurricular activity in association with mainstream educational institutions

Tasks include -

- (a) assessing the students' level of ability and determining learning needs;
- (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups;
- (c) preparing and presenting material on the theory of the subject area being studied;
- (d) instructing and demonstrating practical aspects of drama, dance, visual or other arts;
- (e) assigning exercises and work relevant to students' level of ability, interests and talents;
- (f) assessing students and offering advice, criticism and encouragement;
- (g) revising curricula, course content, course materials and methods of instruction;
- (h) preparing students for examinations, performance and assessments;
- (i) arranging visits and tours to exhibitions and performances;
- (j) organizing and assisting in performances or exhibitions of students' work.

Examples of the occupations classified here:

- Dance teacher (private tuition)
- Drama teacher (private tuition)
- Painting teacher (private tuition)
- Sculpture teacher (private tuition)

Some related occupations classified elsewhere:

- University lecturer - 2310
- Vocational education teacher - 2320
- Secondary school teacher - 2330
- Primary school teacher - 2341
- Private music teacher – 2354

## **2356 Information technology trainers**

Information technology trainers develop, schedule and conduct training programs and courses for computer and other information technology users outside the mainstream primary, secondary and higher education systems.

Tasks include –

- (a) identifying the information technology training needs and requirements of individual users and organizations;
- (b) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models, and supporting training reference documentation;
- (c) designing, coordinating, scheduling and conducting training and development programs that can be delivered in the form of individual and group instruction, and facilitating workshops meetings; demonstrations and conferences;
- (d) monitoring and performing ongoing evaluation and assessment of training quality and effectiveness, and reviewing and modifying training objectives, methods and course deliverables;
- (e) gathering, investigating and researching background materials to gain a full understanding of the subject matter and systems;
- (f) keeping up-to-date with new product version releases, advances in software, and general information technology trends, writing end user products and materials such as user training, tutorial and instruction manuals, online help, and operating and maintenance instructions.

Examples of the occupations classified here:

- Computer trainer
- Software trainer

Some related occupations classified elsewhere:

- University lecturer - 2310
- Vocational education teacher - 2320
- Secondary school teacher - 2330
- Primary school teacher - 2341
- Staff development officer- 2424

## **2359 Teaching professionals not elsewhere classified**

This unit group covers teaching professionals not classified elsewhere in Sub-major group 23, Teaching professionals. For instance, the group includes those who provide private tuition in subjects other than foreign languages and the arts, and those who provide educational counselling to students.

In such cases tasks performed would include -

- (a) assessing students' level of ability and determining learning needs;
- (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups;
- (c) preparing and presenting material on the theory of the subject area being studied;
- (d) instructing and demonstrating practical aspects of the subject area being studied;
- (e) assigning exercises and work relevant to students' level of ability, interests and aptitude;
- (f) assessing students and offering advice, criticism and encouragement;
- (g) revising curricula, course content, course materials and methods of instruction
- (h) preparing students for examinations and assessments;
- (i) counselling students regarding educational issues such as course and program selection, class scheduling, school adjustment, truancy, study habits, and career planning;
- (j) counselling students to help them understand and overcome personal, social, or behavioral problems affecting their education;
- (k) preparing students for later educational experiences by encouraging them to explore learning opportunities and to persevere with challenging tasks.

Examples of the occupations classified here:

- Literacy tutor (private tuition)
- Mathematics coach (private tuition)
- School counselor

Some related occupations classified elsewhere:

- University lecturer - 2310
- Vocational education teacher - 2320
- Secondary school teacher - 2330
- Primary school teacher - 2341
- Intensive language teacher - 2353
- Migrant education teacher - 2353
- Music teacher (private tuition) - 2354
- Dance teacher (private tuition) - 2355
- Drama teacher (private tuition) - 2355
- Painting teacher (private tuition) - 2355
- Sculpture teacher (private tuition) - 2355
- Educational Psychologist – 2634
- Family counselor - 2635
- Social worker – 2635

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>23</b>	<b>Sub-major Group</b>	<b>Teaching professionals</b>
<b>235</b>	<b>Minor Group</b>	<b>Other teaching professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2351</b>		<b>Education methods specialists</b>
	23511	Adviser, education (professional)
	23512	Adviser, teaching methods (professional)
	23513	Developer, curricula
	23514	Specialist, audio-visual and other teaching aids
	23515	Inspector, school
	23516	Inspector, special institutions
	23517	Adviser, education/Adviser, education: methods/Consultant, education/Coordinator, curriculum/Developer, curriculum/Specialist, education: methods/Specialist, visual: teaching aids
	23518	Adviser, academic
<b>2352</b>		<b>Special needs teachers</b>
	23521	Teacher, remedial (professional/associate)
	23522	Teacher, special education for the blind (professional/associate)
	23523	Teacher, special education for the deaf / dumb (professional associate)
	23524	Teacher, special education for the physically/ mentally handicapped (professional/associate)
	23525	Teacher, special education remedial (professional/ associate)
	23526	Instructor, Braille
	23527	Teacher, learning support /Teacher, of gifted children/Teacher, of the hearing impaired, Teacher, of the sight impaired/Teacher, special education: learning disabilities
<b>2353</b>		<b>Other language teachers</b>
	23531	Intensive language teacher
	23532	Practical language teacher
	23533	Migrant education teacher
	23534	Second language teacher
	23535	Tutor, after school: languages/Tutor, language: private tuition
	23536	Teacher, EFL/Teacher, English as a second language/Teacher, ESL
<b>2354</b>		<b>Other music teachers</b>
	23541	Guitar/ Piano/ Violin teacher
	23542	Singing teacher
	23543	Coach, vocal/Teacher, music: private tuition/Teacher, singing: private tuition/Tutor, music: private tuition/ Tutor, private tuition: singing
<b>2355</b>		<b>Other arts teachers</b>
	23551	Dance teacher
	23552	Drama teacher
	23553	Painting teacher
	23554	Sculpture teacher

Unit Group	Sub-unit Group	Description
	23555	Coach, dance/Coach, dance sport/Instructor, dance/Manager, dance studio: instructing Teacher, drama: private tuition/Teacher, painting: private tuition/Teacher, sculpture: private tuition/Tutor, art: private tuition/Tutor, dance: private tuition/Tutor, drama: private tuition
<b>2356</b>		<b>Information technology trainers</b>
	23561	Computer trainer
	23562	Software trainer
	23563	Computer hardware trainer
	23564	Consultant, computer training/Consultant, information technology: training Trainer, information technology/Trainer, internet/Trainer, IT
<b>2359</b>		<b>Teaching professionals not elsewhere classified</b>
	23591	Tutor (private tuition)
	23592	Instructor, flying/ Teacher(private academy)
	23593	Adviser, student/Coach, debating/Coach, mathematics: private tuition
	23594	Counselor, college/Counselor, school/Counselor, student
	23595	Tutor, after school: mathematics/Tutor, calligraphy/Tutor, chemistry: private tuition, Tutor, coaching college/Tutor, dressmaking: private tuition/Tutor, elocution: private tuition/Tutor, handicrafts: private tuition/Tutor, literacy and numeracy: private tuition Tutor, literacy: private tuition/Tutor, math's: private tuition

## 24 Business and administration professionals

Business and administration professionals perform analytical, conceptual and practical tasks to provide services in financial matters, human resource development, public relations and marketing, sales in the technical, medical, information and communication technology areas and conduct, reviews of organizational structures, methods and systems as well as quantitative analyzes of information affecting investment programs.

Tasks performed by workers in this sub-major group usually include:

Collecting, analyzing and interpreting information on the financial viability, cost structures and trading effectiveness of organizations; conducting audits, preparing financial statements and controlling treasury systems for organizations; developing and reviewing financial plans and strategies, executing buy and sell orders, and negotiating the purchase and sale of commodities; developing, implementing and evaluating staff recruitment, training and development programs; researching, developing and implementing marketing and public relations campaigns; studying and developing methods and policies to improve and promote government and business operations and effectiveness; acquiring and updating knowledge of employers' and competitors' goods and services, and market conditions; assessing customers' needs and explaining and demonstrating goods and services to them.

Occupations in this sub-major group are classified into the following minor groups:

### 241 Finance professionals

- 242 Administration professionals
- 243 Sales, marketing and public relations professionals

## **241 Finance professionals**

Finance professionals plan, develop, organize, administer, invest, manage and conduct quantitative analyses of either financial accounting systems or funds for individuals, establishments and public or private institutions.

Tasks performed usually include:

Preparing and organizing financial statements for an organization; reviewing financial materials of an organization; providing financial advice to individuals and organizations; preparing analytic reports concerning segments of the economy and the economy as a whole.

Occupations in this minor group are classified into the following unit groups:

- 2411 Accountants
- 2412 Financial and investment advisers
- 2413 Financial analysts

### **2411 Accountants**

Accountants plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.

- (a) advising on, planning and installing budgetary, accounts controlling and other accounting policies and systems;
- (b) preparing and certifying financial statements for presentation to management, shareholders and statutory or other bodies;
- (c) preparing tax returns, advising on taxation problems and contesting disputed claims before tax officials;
- (d) preparing or reporting on profit forecasts and budgets;
- (e) conducting financial investigations in such matters as suspected fraud, insolvency and bankruptcy;
- (f) auditing accounts and bookkeeping records;
- (g) conducting investigations and advising management on financial aspects of productivity, stockholdings, sales, new products, etc.;
- (h) devising and controlling a system to determine unit cost of products and services.

Examples of the occupations classified here:

- Accountant
- Auditor
- Chartered accountant
- Certified accountant
- Financial controller
- Management accountant
- Tax accountant

Some related occupations classified elsewhere:

- Finance manager - 1211
- Accounting assistant - 3313
- Bookkeeper – 3313

## **2412 Financial and investment advisers**

Financial and investment advisers develop financial plans for individuals and organizations, and invest and manage funds on their behalf.

- (a) building and maintaining a client base;
- (b) interviewing clients to determine financial status and objectives, risk tolerance and other information needed to develop financial plans and investment strategies;
- (c) setting financial objectives, and developing and implementing strategies for achieving the financial objectives;
- (d) arranging to buy and sell stocks and bonds for clients;
- (e) monitoring investment performance, and reviewing and revising investment plans based on modified needs and changes in markets;
- (f) recommending and arranging insurance cover for clients.

Examples of the occupations classified here:

- Estate planner
- Financial planner

## **2413 Financial analysts**

Financial analysts conduct quantitative analyses of information affecting investment programs of public or private institutions.

- (a) analyzing financial information to produce forecasts of business, industry, and economic conditions for use in making investment decisions;
- (b) maintaining knowledge and staying abreast of developments in the fields of industrial technology, business, finance, and economic theory;
- (c) interpreting data affecting investment programs, such as price, yield, stability, future trends in investment risks, and economic influences;
- (d) monitoring economic, industrial, and corporate developments through analysis of information obtained from financial publications and services, investment banking firms, government agencies, trade publications, company sources, and personal interviews;
- (e) recommending investments and investment timing to companies, investment firm staff, or the investing public;
- (f) determining the prices at which securities should be syndicated and offered to the public;
- (g) preparing plans of action for investment based on financial analyses.
- (h) evaluating and comparing the relative quality of various securities in a given industry;
- (i) presenting oral and written reports on general economic trends, individual corporations, and entire industries.

Examples of the occupations classified here:

- Bond analyst
- Investment consultant
- Securities consultant

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>24</b>	<b>Sub-major Group</b>	<b>Business and administration professionals</b>
<b>241</b>	<b>Minor Group</b>	<b>Finance professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2411</b>		<b>Accountants</b>
	24111	Accountant (professional)
	24112	Accountant, auditing
	24113	Accountant, budget
	24114	Chartered/ Certified accountant
	24115	Tax accountant
	24116	Financial controller
	24117	Auditor (professional)
	24118	Accountant, other / Inspector, cooperative societies/Accountant, management/Adviser, taxation/Assignee, bankruptcy/Assignee, insolvency/Bursar/ Consultant, accountancy/ Consultant, audit/Controller, financial/ Examiner, audit/Examiner, bankruptcy/Examiner, insolvency/Liquidator, company/Liquidator, financial/Officer, audit/Practitioner, insolvency/Purser, ship/Receiver, bankruptcy/Receiver, official/Specialist, insolvency Trustee, bankruptcy/Trustee, insolvency
<b>2412</b>		<b>Financial and investment advisers</b>
	24121	Financial advisor
	24122	Investment advisor
	24123	Estate planner
	24124	Financial planner
	24125	Adviser, superannuation/Adviser, wealth management/Consultant, financial/Consultant, financial advice/Consultant, investment: advising clients/Consultant, property: investment/Consultant, superannuation: providing advice/Para planner, financial
	24126	Adviser, debt/Adviser, pensions/Consultant, pensions
<b>2413</b>		<b>Financial analysts</b>
	24131	Financial analysts
	24132	Investment consultant
	24133	Securities consultant
	24134	Bond analyst
	24135	Analyst, financial: investments /Analyst, investment/Analyst, securities/ Consultant, investment: financial analysis

## **242 Administration professionals**

Administration professionals apply various concepts and theories related to improving the effectiveness of organizations and the individuals within the organization.



Tasks performed usually include:

Evaluating the structure of organizations and suggesting areas of improvement; ensuring that the operational activities of an organization are consistent with the policy objectives of the organization; recruiting, training, developing, and counselling personnel within an organization.

Occupations in this minor group are classified into the following unit groups:

- 2421 Management and organization analysts
- 2422 Policy administration professionals
- 2423 Personnel and careers professionals
- 2424 Training and staff development professionals

#### **2421 Management and organization analysts**

Management and organization analysts assist organizations to achieve greater efficiency and solve organizational problems. They study organizational structures, methods, systems and procedures.

- (a) assisting and encouraging the development of objectives, strategies and plans aimed at achieving customer satisfaction and the efficient use of organizations' resources;
- (b) analyzing and evaluating current systems and structures;
- (c) discussing current systems with staff and observing systems at all levels of organization;
- (d) directing clients towards more efficient organization and developing solutions to organizational problems;
- (e) undertaking and reviewing work studies by analyzing existing and proposed methods and procedures such as administrative and clerical procedures;
- (f) recording and analyzing organizations' work flow charts, records, reports, manuals and job descriptions;
- (g) preparing and recommending proposals to revise methods and procedures, alter work flows, redefine job functions and resolve organizational problems;
- (h) assisting in implementing approved recommendations, issuing revised instructions and procedure manuals, and drafting other documentation;
- (i) reviewing operating procedures and advising of departures from procedures and standards.

Examples of the occupations classified here:

- Organization and methods analyst
- Business consultant
- Management consultant

Some related occupations classified elsewhere:

ICT Business Analysts - 2511

#### **2422 Policy administration professionals**

Policy administration professionals develop and analyze policies guiding the design, implementation and modification of government and commercial operations and programs.

- (a) liaising and consulting with program administrators and other interested parties to identify policy needs;
- (b) reviewing existing policies and legislation to identify anomalies and out-of-date provisions;
- (c) researching social, economic and industrial trends, and client expectations of programs and services provided;
- (d) formulating and analyzing policy options, preparing briefing papers and recommendations for policy changes, and advising on preferred options;

- (e) assessing impacts, financial implications, interactions with other programs and political and administrative feasibility of policies;
- (f) conducting threat and risk assessments and developing responses;
- (g) reviewing operations and programs to ensure consistency with policies of the organization.

Examples of the occupations classified here:

- Policy analyst
- Intelligence officer

## **2423 Personnel and careers professionals**

Personnel and careers professionals provide professional business services related to personnel policies such as employee recruitment or development, occupational analyzes and vocational guidance.

- (a) advising on and performing personnel functions relating to employee recruitment, placement, training, promotion, compensation, and employee-management relations or other areas of personnel policy;
- (b) studying and analyzing jobs performed in an establishment by various means, including interviews with workers, supervisors and management, and writing detailed position, job or occupation descriptions from information obtained;
- (c) preparing occupational information or working on occupational classification systems;
- (d) advising and working on the foregoing and other aspects of job and occupation analyzes in such fields as personnel administration, workforce research and planning, training, or occupational information and vocational guidance;
- (e) studying and advising individuals on employment opportunities, career choices and further education or training that may be desirable.

Examples of the occupations classified here:

- Careers adviser,
- Job analyst
- Occupational analyst
- Vocational guidance counselor
- Human resource expert
- Outplacement expert

## **2424 Training and staff development professionals**

Training and staff development professionals plan, develop, implement and evaluate training and development programs to ensure management and staff acquire the skills and develop the competencies required by organizations to meet organizational objectives.

### **Tasks include -**

- (a) identifying training needs and requirements of individuals and organizations;
- (b) setting human resource development objectives and evaluating learning outcomes;
- (c) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models, and supporting training reference documentation;
- (d) designing, coordinating, scheduling and conducting training and development programs that can be delivered in the form of individual and group instruction, and facilitating workshops, meetings, demonstrations and conferences;
- (e) liaising with external training providers to arrange delivery of specific training and development programs;

- (f) promoting internal and external training and development, and evaluating these promotional activities;
- (g) monitoring and performing ongoing evaluation and assessment of internal and external training quality and effectiveness, and reviewing and modifying training objectives, methods and course deliverables;
- (h) gathering, investigating and researching background materials to gain an understanding of various subject matters and systems.

Examples of the occupations classified here:

- Training officer
- Workforce development specialist

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>24</b>	<b>Sub-major Group</b>	<b>Business and administration professionals</b>
<b>242</b>	<b>Minor Group</b>	<b>Administration professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2421</b>		<b>Management and organization analysts</b>
	24211	Organization and methods analyst
	24212	Business consultant
	24213	Management consultant
	24214	Analyst, cost/Analyst, management/Consultant, management/Facilitator, quality/Inspector, quality: services/ <b>Special business efficiency</b>
<b>2422</b>		<b>Policy administration professionals</b>
	24221	Policy analyst
	24222	Policy analyst, administration
	24223	Adviser, political/Adviser, public policy/Analyst, intelligence/Analyst, security: policy/Analyst, treasury: government policy
	24224	Consultant, health care planning/Consultant, security: policy/Consultant, social policy
	24225	Officer, intelligence/Officer, parliamentary: research/Officer, public policy/Officer, security: policy
	24226	Researcher, developing or analyzing government policy/Researcher, health: policy/Researcher, reviewing policy/ Planner, social
	24227	Censor, film/Censor, government
	24228	Analyst, strategy/Strategist
<b>2423</b>		<b>Personnel and careers professionals</b>
	24231	Adviser, careers (professional)/ occupational
	24232	Counsellor, employment/ vocational guidance
	24233	Specialist, personnel and occupational
	24234	Conciliator, labour-management relations
	24235	Interviewer, employment

Unit Group	Sub-unit Group	Description
	24236	Adviser, human resources/Adviser, industrial relations/Adviser, labour relations/Adviser, workplace relations/Analyst, job/Analyst, occupational/Arbitrator, industrial relations/Conciliator, labour relations/Conciliator, workplace Consultant, human resources/Consultant, personnel/Consultant, recruitment/Expert, human resources/Expert, outplacement/Mediator, workplace/Officer. recruitment
	24237	Headhunter
<b>2424</b>		<b>Training and staff development professionals</b>
	24241	Officer, labour welfare
	24242	Officer, personnel
	24243	Officer, staff training
	24244	Officer, industrial relations
	24245	Officer, personnel safety/Officer occupational
	24246	Consultant, staff development: training/Officer, staff development/Specialist, workforce development/Trainer, staff development
	24247	Assessor ,training/Coach ,executive

## 243 Sales, marketing and public relations professionals

Sales, marketing and public relations professionals plan, develop, coordinate and implement programs of information dissemination to promote organizations, goods and services, and represent companies in selling a range of technical, industrial, medical, pharmaceutical and ICT goods and services.

Tasks performed usually include:

Commissioning and undertaking market research, analyzing the findings, and planning advertising marketing and public relations activities; supporting business growth and development through the preparation and execution of marketing objectives, policies and programs; planning and organizing publicity campaigns; appraising and selecting material submitted by writers, photographers, illustrators and others to create favourable publicity; acquiring and updating knowledge of employers' and competitors' goods and services, and market conditions; assessing customers' needs and explaining and demonstrating goods and services to them; visiting regular and prospective client businesses to establish and act on marketing opportunities; quoting and negotiating prices and credit terms, and completing contracts.

Occupations in this minor group are classified into the following unit groups:

- 2431 Advertising and marketing professionals
- 2432 Public relations professionals
- 2433 Technical and medical sales professionals (excluding ICT)
- 2434 Information and communications technology sales professionals

## **2431 Advertising and marketing professionals**

Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.

Tasks include -

- (a) planning, developing and organizing advertising policies and campaigns to support sales objectives;
- (b) advising managers and clients on strategies and campaigns to reach target markets, creating consumer awareness and effectively promoting the attributes of goods and services;
- (c) writing advertising copy and media scripts, and arranging television and film production and media placement;
- (d) analyzing data regarding consumer patterns and preferences;
- (e) interpreting and predicting current and future consumer trends;
- (f) researching potential demand and market characteristics for new goods and services and collecting and analyzing data and other statistical information;
- (g) supporting business growth and development through the preparation and execution of marketing objectives, policies and programs;
- (h) commissioning and undertaking market research to identify market opportunities for new and existing goods and services;
- (i) advising on all elements of marketing such as product mix, pricing, advertising and sales promotion, selling, and distribution channels.

Examples of the occupations classified here:

- Advertising specialist
- Market research analyst
- Marketing specialist

## **2432 Public relations professionals**

Public relations professionals plan, develop, implement and evaluate information and communication strategies that create an understanding and a favourable view of businesses and other organizations, their goods and services, and their role in the community.

Tasks include -

- (a) planning and organizing publicity campaigns and communication strategies;
- (b) advising executives on the public relations implications of their policies, programs and practices preparing and controlling the issue of news and press releases;
- (c) undertaking and commissioning public opinion research, analyzing the findings and planning public relations and promotional campaigns;
- (d) organizing special events, seminars, entertainment, competitions and social functions to promote goodwill and favourable publicity;
- (e) representing organizations and arranging interviews with publicity media;
- (f) attending business, social and other functions to promote the organization;
- (g) commissioning and obtaining photographs and other illustrative material;
- (h) selecting, appraising and revising material submitted by publicity writers, photographers, illustrators and others to create favourable publicity.

Examples of the occupations classified here:

- Public relations officer

### **2433 Technical and medical sales professionals (excluding ICT)**

Technical and medical sales professionals (excluding ICT) represent companies in selling a range of industrial, medical and pharmaceutical goods and services to industrial, business, professional and other establishments.

Tasks include -

- (a) compiling lists of prospective client businesses using directories and other sources;
- (b) acquiring and updating knowledge of employers' and competitors' goods and services, and market conditions;
- (c) visiting regular and prospective client businesses to establish and act on selling opportunities;
- (d) assessing clients' needs and resources and recommending appropriate goods or services;
- (e) providing input to product design where goods or services must be tailored to suit clients' needs;
- (f) developing reports and proposals as part of sales presentation to demonstrate benefits from use of good or service;
- (g) estimating costs of installing and maintaining equipment or service;
- (h) monitoring customers' changing needs and competitor activity, and reporting these developments to sales management;
- (i) quoting and negotiating prices and credit terms, and preparing and administering sales contracts;
- (j) arranging delivery of goods, installation of equipment and the provision of services;
- (k) reporting to sales management on sales made and the marketability of goods and services;
- (l) consulting with clients after sale to ensure satisfaction resolve any problems and provide ongoing support.

Examples of the occupations classified here:

- Sales representative (industrial products)
- Sales representative (medical and pharmaceutical products)
- Technical sales representative

Some related occupations classified elsewhere:

Commercial sales representative - 3322

Information and communications technology sales representative – 2434

### **2434 Information and communications technology sales professionals**

Information and communications technology (ICT) sales professionals sell, at the wholesale level, a range of computer hardware, software and other information and communications technology goods and services including installations and provide specialized information as required.

Tasks include -

- (a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
- (b) selling technical equipment, supplies and related services to business establishments or individuals;
- (c) discussing the needs of new and existing customers and providing specialised information about how particular equipment, supplies and services meet those needs;
- (d) quoting and negotiating prices and credit terms, and completing contracts and recording orders;
- (e) updating customer records and preparing sales reports;
- (f) arranging delivery of goods, installation of equipment and the provision of services;
- (g) reporting customers' reactions and requirements to manufacturers

Some related occupations classified elsewhere:

Shop sales assistant - 5223

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>24</b>	<b>Sub-major Group</b>	<b>Business and administration professionals</b>
<b>243</b>	<b>Minor Group</b>	<b>Sales, marketing and public relations professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2431</b>		<b>Advertising and marketing professionals</b>
	24311	Accountant (executive), advertising
	24312	Analyst, market research
	24313	Specialist, sales promotion methods
	24314	Specialist, business efficiency
	24315	Agent patent
	24316	Copywriter, advertising
	24317	Consultant, advertising/Consultant, market: research/Consultant, marketing
	24318	Executive, account: advertising/Executive, account: marketing/Manager, account: marketing/Researcher, market/Specialist, advertising/Specialist, marketing/Specialist, sales: promotion (methods)
<b>2432</b>		<b>Public relations professionals</b>
	24321	Agent, publicity
	24322	Officer, press liaison
	24323	Officer, public information/ relations
	24324	Copywriter, publicity/Engineer, organization and method
	24325	Analyst, communications: except computers/Consultant, communications/Consultant, public relations/Executive, account: public relations/Lobbyist/Manager, account: public relations/Officer, public information/Publicist/Secretary, press/Writer, copy: public relations/Writer, copy: publicity/Writer, publicity



Unit Group	Sub-unit Group	Description
<b>2433</b>		<b>Technical and medical sales professionals (excluding ICT)</b>
	24331	Agent, sales (engineering/technical)
	24332	Representative, medical
	24333	Representative, sales (engineering/technical)
	24334	Salesperson, engineering/technical
	24335	Sales representative/ Agent, manufacturer's
	24336	Agent, sales: medical/Consultant, sales: engineering/Consultant, sales: technical (except ICT)/Engineer, sales: except ICT/Executive, account: sales (industrial products)/Executive, account: sales (medical products)/Executive, account: sales (pharmaceuticals)/Manager, account: sales (industrial products)/Manager, account: sales (medical products)/Manager, account: sales (pharmaceuticals)/Representative, sales: industrial products
<b>2434</b>		<b>Information and communications technology sales professionals</b>
	24341	Representative, sales (computer)
	24342	Representative, sales (telecommunication technology)
	24343	Representative, sales (computer hardware)
	24344	Representative, sales (computer software)
	24345	Representative, sales (other ICT)
	24346	Agent, sales: communications (technology)/Agent, sales: computer (systems)/Agent, sales: information technology
	24347	Consultant, sales: computer systems/Consultant, sales: information technology Consultant, sales: technical (ICT)
	24348	Engineer, sales: ICT/Executive, account: sales (information and communications technology)/Manager, account: computer technology/Manager, account: ICT /Manager, account: sales (information and communications technology)/Manager, business development: ICT/Representative, sales: information technology/Representative, sales: technical (ICT)/Salesperson, communications technology/Salesperson, computer systems/Salesperson, information technology

## 25 Information and communications technology professionals

Information and communications technology professionals conduct research, plan, design, write, test, provide advice and improve information technology systems, hardware, software and related concepts for specific applications; develop associated documentation including principles, policies and procedures; and design, develop, control, maintain and support databases and other information systems to ensure optimal performance and data integrity and security.

### Tasks performed usually include:

Researching information technology use in business functions; identifying areas for improvement and researching the theoretical aspects and operational methods for the use of computers; evaluating, planning and designing hardware or software configurations for specific applications including for Internet, Intranet and multimedia systems; designing, writing, testing and maintaining computer programs; designing and developing database architecture and database management systems;



developing and implementing security plans and data administration policy, and administering computer networks and related computing environments; analyzing, developing, interpreting and evaluating complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems.

Occupations in this sub-major group are classified into the following minor groups:

- 251 Software and applications developers and analysts
- 252 Database and network professionals

## **251 Software and applications developers and analysts**

Software and applications developers and analysts conduct research, plan, design, write, test, provide advice on and improve information technology systems, such as hardware, software and other applications to meet specific requirements.

### **Tasks performed usually include:**

Researching information technology use in business functions and identifying areas in which improvements could be made to maximize effectiveness and efficiency; conducting research into the theoretical aspects of and operational methods for the use of computers; evaluating, planning and designing hardware or software configurations for specific applications; designing, writing, testing and maintaining computer programs for specific requirements; evaluating, planning and designing Internet, Intranet and multimedia systems.

Occupations in this minor group are classified into the following unit groups:

- 2511 Systems analysts
- 2512 Software developers
- 2513 Web and multimedia developers
- 2514 Applications programmers
- 2519 Software and applications developers and analysts not elsewhere classified

## **2511 Systems analysts**

Systems analysts conduct research, analyze and evaluate client information technology requirements, procedures or problems, and develop and implement proposals, recommendations, and plans to improve current or future information systems.

### **Tasks include -**

- (a) consulting with users to formulate and document requirements and with management to ensure agreement on systems principles;
- (b) identifying and analyzing business processes, procedures and work practices;
- (c) identifying and evaluating inefficiencies and recommending optimal business practices, and system functionality and behaviour;
- (d) taking responsibility for deploying functional solutions, such as creating, adopting and implementing system test plans;
- (e) developing functional specifications for use by systems developers;
- (f) expanding or modifying systems to improve work flow or serve new purposes;
- (g) coordinating and linking the computer systems within an organization to increase compatibility.

Examples of the occupations classified here:

- Business analyst (IT)
- Communications analyst (computers)

- Systems consultant
- Systems designer (IT)
- Computer scientist

Some related occupations classified elsewhere:

- Communications analyst (computers) - 2523
- Network analyst - 2523
- Systems administrator – 2522

## **2512 Software developers**

Software developers research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet these requirements.

Tasks include -

- researching, analyzing and evaluating requirements for software applications and operating systems;
- researching, designing, and developing computer software systems;
- consulting with engineering staff to evaluate interface between hardware and software;
- developing and directing software testing and validation procedures;
- modifying existing software to correct errors, to adapt it to new hardware or to upgrade interfaces and improve performance;
- directing software programming and development of documentation;
- assessing, developing, upgrading and documenting maintenance procedures for operating systems, communications environments and applications software;
- consulting with customers concerning maintenance of software system.

Examples of the occupations classified here:

- Programmer analyst
- Software designer
- Software developer
- Software engineer

Some related occupations classified elsewhere:

- Applications programmer - 2514

## **2513 Web and multimedia developers**

Web and multimedia development professionals combine design and technical knowledge to research, analyze, evaluate, design, programme and modify websites, and applications that draw together text, graphics, animations, imaging, audio and video displays, and other interactive media.

Tasks include -

- analyzing, designing and developing Internet sites applying a mixture of artistry and creativity with software programming and scripting languages and interfacing with operating environments;
- designing and developing digital animations, imaging, presentations, games, audio and video clips, and Internet applications using multimedia software, tools and utilities, interactive graphics and programming languages;
- communicating with network specialists regarding web-related issues, such as security and hosting web sites, to control and enforce Internet and web server security, space allocation, user access, business continuity, web site backup and disaster recovery planning;
- designing, developing and integrating computer code with other specialised inputs, such as

image files, audio files and scripting languages, to produce, maintain and support web sites;

- (e) assisting in analyzing, specifying and developing Internet strategies, web-based methodologies and development plans.

Examples of the occupations classified here:

- Animation programmer
- Computer games programmer
- Internet developer
- Multimedia programmer
- Website architect
- Website developer

Some related occupations classified elsewhere:

- Website designer - 2166
- Webmaster - 3514
- Website administrator - 3514
- Website technician- 3514

## **2514 Applications programmers**

Applications programmers write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.

Tasks include -

- (a) writing and maintaining program code outlined in instructions and specifications in accordance with quality accredited standards;
- (b) revising, repairing or expanding existing programs to increase operating efficiency or adapt to new requirements;
- (c). conducting trial runs of programs and software applications to confirm that they will produce the desired information;
- (d) compiling and writing documentation of program development;
- (e) identifying and communicating technical problems, processes and solutions.

Examples of the occupations classified here:

- Applications programmer

Some related occupations classified elsewhere:

- Multimedia programmer - 2513
- Programmer analyst - 2512
- Software developer - 2512

## **2519 Software and applications developers and analysts not elsewhere classified**

This unit group covers software and applications developers and analysts not classified elsewhere in minor group 251, Software and applications developers and analysts. For instance the group includes those professionals specializing in quality assurance including software testing.

Tasks include –

- (a) developing and documenting software testing plans;
- (b) installing software and hardware and configuring operating system software in preparation for testing;

- (c) verifying that programmes function according to user requirements and established guidelines;
- (d) executing, analyzing and documenting results of software application tests and information and telecommunication systems tests;
- (e) developing and implementing software and information system testing policies, procedures and scripts.

Examples of the occupations classified here:

- Quality assurance analyst (computers)
- Software tester
- Systems tester

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>25</b>	<b>Sub-major Group</b>	<b>Information and communications technology professionals</b>
<b>251</b>	<b>Minor Group</b>	<b>Software and applications developers and analysts</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2511</b>		<b>Systems analysts</b>
	25111	Systems analyst, (IT)
	25112	Business analyst (IT)
	25113	Systems consultant
	25114	Systems designer (IT)
	25115	Computer scientist
	25116	Administrator, SAP: business analysis/Analyst, business: systems design/Analyst, computer: business analysis/Analyst, information systems/Analyst, SAP/Analyst, systems: computers/Architect, business solutions/Architect, business: business analysis/Architect, information: business analysis
	25117	Consultant, business: information technology/Designer, systems: computers Designer, systems: IT/Engineer, business process: information technology Technologist, information: business analysis
<b>2512</b>		<b>Software developers</b>
	25121	Software engineer
	25122	Software designer
	25123	Software developer
	25124	Programmer analyst
	25125	Developer, applications: computing (except web)/Engineer, computer: applications/Engineer, computer: systems
<b>2513</b>		<b>Web and multimedia developers</b>
	25131	Website developer
	25132	Website architect
	25133	Multimedia programmer
	25134	Internet developer
	25135	Computer games programmer

Unit Group	Sub-unit Group	Description
	25136	Animation programmer
	25137	Consultant( internet: developing websites/ internet: programming)/ Developer (applications: computing (internet)/ applications: computing (web)/ computer game/ dhtml/ flash)/ html interactive/ internet applications/ internet /ultimedia/ internet software/ multimedia/ video game/ web/ web applications/ web software/ webpage
	25138	Engineer, internet: developing websites/Engineer, internet: programming/Programmer, computer: internet/Programmer, computer: web/ Programmer, computer: website/Programmer, dhtml/Programmer, html/ Programmer, internet/Programmer, internet applications/Programmer, web/ Programmer, website/Specialist, multimedia
<b>2514</b>		<b>Applications programmers</b>
	25141	Applications programmer
	25142	Programmer, computer
<b>2519</b>		<b>Software and applications developers and analysts not elsewhere classified</b>
	25191	Quality assurance analyst (computers)
	25192	Software tester/ Systems tester
	25193	Analyst, business: testing software/Analyst, computer: testing software/Analyst, software: testing/Coordinator, software testing/Coordinator, test: software/ Manager, deployment: information and communication technology (ICT)/ Manager, release: projects (ICT)/Manager, release: systems (ICT)/Programmer, computer: applications testing/Programmer, computer: testing (software)

## **252 Database and network professionals**

Database and network professionals design, develop, control, maintain and support the optimal performance and security of information technology systems and infrastructure, including databases, hardware and software, networks and operating systems.

Tasks performed usually include:

Designing and developing database architecture, data structures, dictionaries and naming conventions for information systems projects; designing, constructing, modifying, integrating, implementing and testing database management systems; developing and implementing security plans, data administration policy, documentation and standards; maintaining and administering computer networks and related computing environments; analyzing, developing, interpreting and evaluating complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems.

Occupations in this minor group are classified into the following unit groups:

- 2521 Database designers and administrators
- 2522 Systems administrators
- 2523 Computer network professionals
- 2529 Database and network professionals not elsewhere classified

## **2521 Database designers and administrators**

Database designers and administrators design, develop, control, maintain and support the optimal performance and security of databases.

Tasks include -

- (a) designing and developing database architecture, data structures, tables, dictionaries and naming conventions for information systems projects;
- (b) designing, constructing, modifying, integrating, implementing and testing database management systems;
- (c) conducting research and providing advice on the selection, application and implementation of database management tools;
- (d) developing and implementing data administration policy, documentation, standards and models;
  
- (e) developing policies and procedures for database access and usage and for the backup and recovery of data;
- (f) performing the operational establishment and preventive maintenance of backups, recovery procedures, and enforcing security and integrity controls.

Examples of the occupations classified here:

- Data administrator
- Database administrator
- Database analyst
- Database architect

Some related occupations classified elsewhere:

- Systems administrator (computers) - 2522
- Network administrator - 2522
- Website administrator - 3514
- Webmaster - 3514

## **2522 Systems administrators**

Systems administrators develop, control, maintain and support the optimal performance and security of information technology systems

Tasks include -

- (a) maintaining and administering computer networks and related computing environments including computer hardware, systems software, applications software and all configurations;
- (b) recommending changes to improve systems and network configurations, and determining hardware or software requirements related to such changes;
- (c) diagnosing hardware and software problems;
- (d) performing data backups and disaster recovery operations;
- (e) operating master consoles to monitor the performance of computer systems and networks, and to coordinate computer network access and use.

Examples of the occupations classified here:

- Systems administrator
- Network administrator

Some related occupations classified elsewhere:

- Database administrator - 2521
- Network analyst - 2523
- Website administrator - 3514
- Website technician - 3514
- Webmaster – 3514

## **2523 Computer network professionals**

Computer network professionals research, analyze and recommend strategies for network architecture and development, implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimize performance.

Tasks include –

- (a) analyzing, developing, interpreting and evaluating complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems;
- (b) researching, analyzing, evaluating and monitoring network infrastructure to ensure networks are configured to operate at optimal performance;
- (c) assessing and recommending improvements to network operations and integrated hardware, software, communications and operating systems;
- (d) providing specialist skills in supporting and troubleshooting network problems and emergencies;
- (e) installing, configuring, testing, maintaining and administering new and upgraded networks, software database applications, servers and workstations;
- (d) preparing and maintaining procedures and documentation for network inventory, and recording diagnosis and resolution of network faults, enhancements and modifications to networks, and maintenance instructions;
- (g) monitoring network traffic, and activity, capacity and usage to ensure continued integrity and optimal network performance.

Examples of the occupations classified here:

- Communications analyst (computers)
- Network analyst

Some related occupations classified elsewhere:

- Systems analyst - 2511
- Network administrator – 2522

## **2529 Database and network professionals not elsewhere classified**

This unit group covers database and network professionals elsewhere in Minor group 252, Database and network professionals. For instance, the group includes information and communications technology security specialists.

Tasks include –

- (a) developing plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs;
- (b) training users and promoting security awareness to ensure system security and to improve server and network efficiency;
- (c) conferring with users to discuss issues such as computer data access needs, security

- violations, and programming changes;
- (d) monitoring current reports of computer viruses to determine when to update virus protection systems;
- (e) modifying computer security files to incorporate new software, correct errors, or change individual access status;
- (f) monitoring use of data files and regulate access to safeguard information in computer files;
- (g) performing risk assessments and executing tests of data processing system to ensure functioning of data processing activities and security measures;
- (h) encrypting data transmissions and erecting firewalls to conceal confidential information as it is being transmitted and to keep out tainted digital transfers.

Examples of the occupations classified here:

- Digital forensic specialist
- Security specialist (ICT)

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>25</b>	<b>Sub-major Group</b>	<b>Information and communications technology professionals</b>
<b>252</b>	<b>Minor Group</b>	<b>Database and network professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2521</b>		<b>Database designers and administrators</b>
	25211	Database analyst/ Database architect
	25212	Database administrator
	25213	Data administrator
	25214	Developer, database
	25215	Manager, database
	25216	Programmer, database
<b>2522</b>		<b>Systems administrators</b>
	25221	System administrator/ Network administrator/ Administrator, computer: systems administration/Administrator, /network/Administrator, systems: /computers/Administrator, Unix/Administrator, WAN
	25222	Analyst, infrastructure: systems administration/Consultant, computer systems: managing system/Consultant, information systems: managing system/information technology: managing system/ information technology: systems administration information technology: unix administration)/Coordinator, information services: managing computer system
	25223	Manager, computer systems: systems administration Manager, information systems: systems administration Manager, information technology: systems administration
	25224	Officer( computer systems: managing system/ support: network administration systems support: systems administration/ technology: systems) administration
	25225	Specialist, network: computing (managing system)/Technologist, information: systems administration



Unit Group	Sub-Unit Group	Description
<b>2523</b>		<b>Computer network professionals</b>
	25231	Communications analyst (computers)
	25232	Network analyst
<b>2529</b>		<b>Database and network professionals not elsewhere classified</b>
	25291	Computer security specialist (ICT)
	25292	Digital forensic specialist
	25293	Data miner
	25294	Analyst, security, computer/security data/security ICT/Auditor, information technology
	25295	Consultant, data mining/Consultant, digital forensics/Consultant, security: computer Consultant, security: data/Consultant, security: ICT/Specialist, security: data Specialist, security: ICT
	25296	Analyst, data mining/Scientist, data mining

## **26 Legal, social and cultural professionals**

Legal, social and cultural professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to the law, storage and retrieval of information and artifacts, psychology, social welfare, politics, economics, history, religion, languages, sociology, other social sciences, and to arts and entertainment.

Tasks performed by workers in this sub-major group usually include:

Conducting research on legal problems; drafting laws and regulations; advising clients on legal cases; pleading and conducting cases in a court of law; presiding over judicial proceedings in a court of law; developing and maintaining library and gallery collections of archives; conducting research, improving or developing concepts, theories and operational methods or applying knowledge relating to the field of social sciences; conceiving, creating and performing in literary and artistic works; interpreting and communicating news, ideas, impressions and facts.

Occupations in this sub-major group are classified into the following minor groups:

- 261 Legal professionals
- 262 Librarians, archivists and curators
- 263 Social and religious professionals
- 264 Authors, journalists and linguists
- 265 Creative and performing artists

### **261 Legal professionals**

Legal professionals conduct research on legal problems, advise clients on legal aspects of problems, plead cases or conduct prosecutions in courts of law, preside over judicial proceedings in courts of law, and draft laws and regulations

Tasks performed usually include:

Giving clients legal advice, undertaking legal business on clients' behalf, and conducting litigation when necessary, or presiding over judicial proceedings- and pronouncing judgment in courts of law. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 2611 Lawyers
- 2612 Judges
- 2619 Legal professionals not elsewhere classified

## **2611 Lawyers**

Lawyers give clients legal advice on a wide variety of subjects, draw up legal documents, represent clients before administrative boards or tribunals and plead cases or conduct prosecutions in courts of justice, or instruct barristers to plead in higher courts of justice.

Tasks include -

- (a) giving clients legal advice on a wide variety of subjects and undertaking legal business on clients' behalf;
- (b) researching legal principles, statutes and previous court decisions related to specific cases;
- (c) gathering evidence to formulate a defence or to initiate legal actions, by such means as interviewing clients and witnesses to ascertain the facts of a case;
- (d) evaluate findings and develop strategies and arguments in preparation for presentation of cases;
- (e) pleading clients' cases before courts of law, tribunals and administrative boards or instructing barristers to plead in higher courts of justice;
- (f) accepting briefs and pleading in the higher court;
- (g) acting as prosecutor on behalf of the Government;
- (h) negotiating settlements in matters which involve legal disputes;
- (i) drafting legislation and preparing government regulations based on existing laws;
- (j) drawing up legal documents such as contracts, real estate transactions and wills and preparing statements of legal opinions.

Examples of the occupations classified here:

- Attorney
- Barrister
- Lawyer
- Prosecutor
- Solicitor

Some related occupations classified elsewhere:

- Notary - 2619
- Conveyancing clerk - 3411
- Law clerk – 3411

## **2612 Judges**

Judges preside over civil and criminal proceedings in courts of law.

Tasks include –

- (a) presiding over trials and hearings;
- (b) interpreting and enforcing rules of procedure and making rulings regarding the admissibility of evidence;

- (c) determining the rights and obligations of the parties involved, and, in cases tried by jury;
- (d) instructing the jury on points of law that are applicable to the case;
- (e) weighing and considering evidence in non-jury trials and deciding legal guilt or innocence or degree of liability of the accused or defendant
- (f) passing sentence on persons convicted in criminal cases, determining damages or other appropriate remedy in civil cases and issuing court orders;
- (g) researching legal issues and writing opinions on the issues.

Examples of the occupations classified here:

- Chief justice
- Judge
- Magistrate

Some related occupations classified elsewhere:

- Court clerk - 3411
- Justice of the Peace – 3411

## **2619 Legal professionals not elsewhere classified**

This unit group covers legal professionals not classified elsewhere in Minor group 261, Legal professionals. For instance, the group includes those who perform legal functions other than pleading or prosecuting cases or presiding over judicial proceedings.

In such cases tasks would include:

- (a) giving advice on legal aspects of various personal, business and administrative problems;
- (b) drawing up legal documents and contracts;
- (c) arranging property transfers;
- (d) determining, by inquest, the causes of any death not obviously due to natural causes.

Examples of the occupations classified here:

- Coroner
- Jurist (except lawyer or judge)
- Notary

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>26</b>	<b>Sub-major Group</b>	<b>Legal, social and cultural professionals</b>
<b>261</b>	<b>Minor Group</b>	<b>Legal professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2611</b>		<b>Lawyers</b>
	26111	Advocate / Advocate general/ Attorney (professional)/ Barrister/ Lawyer, any specialism/ Prosecutor
	26112	Commissioner, oath
	26113	Adviser, legislative/Attaché, legal/ Solicitor
	26114	Counsel, legal/Drafter, parliamentary/Jurisconsult/Jurist, lawyer
	26115	Litigator/Officer, legal/Partner, law

Unit Group	Sub-Unit Group	Description
<b>2612</b>		<b>Judges</b>
	26121	Chief justice/ Justice / Judge, (civil/ district court / high court/ supreme court/ other)
	26122	Officer, presiding (labour)
	26123	Magistrate
<b>2619</b>		<b>Legal professionals not elsewhere classified</b>
	26191	Adviser, legal (professional)
	26192	Referee, appeals (social security claims)
	26193	Attorney, insurance claims
	26194	Jurist, except lawyer or judge
	26195	Notary (public)
	26196	Coroner / Gardawar/Mukhtarcar/Qanoongo
	26197	Patwari,canals/revenue/Tapedar/Tehsildar
	26198	Attorney, insurance claims/Drafter, legal/Referee ,appeals(social security claims)/Writer, petition

## **262 Librarians, archivists and curators**

Librarians, archivists and curators develop and maintain the collections of archives, libraries, museums, art galleries, and similar establishments.

Tasks performed usually include:

Appraising or developing and organizing the contents of archives and artifacts of historical, cultural and artistic interest, and ensuring their safe-keeping and preservation; organizing the collections of and exhibitions at museums, art galleries and similar establishments; developing and maintaining the systematic collection of recorded and published material and making it available to users in libraries and related institutions; preparing scholarly papers and reports; conducting research.

Occupations in this minor group are classified into the following unit groups:

- 2621 Archivists and curators
- 2622 Librarians and related information professionals

### **2621 Archivists and curators**

Archivists and curators collect, appraise and ensure the safekeeping and preservation of the contents of archives, artifacts and records of historical, cultural, administrative and artistic interest, and of art and other objects. They plan, devise and implement systems for the safekeeping of records and historically valuable documents

Tasks include:

- (a) evaluating and preserving records for administrative, historical, legal, evidential and other purposes;

- (b) directing or carrying out the preparation of indexes, bibliographies, microfilm copies and other reference aids to the collected material and making them available to users;
- (c) researching the origin, distribution and use of materials and objects of cultural and historical interest;
- (d) organizing, developing and maintaining collections of artistic, cultural, scientific or historically significant items;
- (e) directing or undertaking classification and cataloguing of museum and art gallery collections and organizing exhibitions;
- (f) researching into, appraising, and developing, organizing and preserving historically significant and valuable documents such as government papers, private papers, photographs, maps, manuscripts audio-visual materials;
- (g) preparing scholarly papers and reports;
- (h) planning and implementing the computerized management of archives and electronic records;
- (i) organizing exhibitions at museums and art galleries, publicizing exhibits and arranging special displays for general, specialized or educational interest;
- (j) appraising and acquiring archival materials to build and develop an archival collection for research purposes.

Examples of the occupations classified here:

- Archivist
- Art gallery curator
- Museum curator
- Records manager

## **2622 Librarians and related information professionals**

Librarians and related information professionals collect, select, develop, organize and maintain library collections and other information repositories, organize and control other library services and provide information for users.

Tasks include:

- (a) organizing, developing and maintaining a systematic collection of books, periodicals and other printed, audio-visually and digitally recorded material;
- (b) selecting and recommending acquisitions of books and other printed or audio-visually and digitally recorded material;
- (c) organizing, classifying and cataloguing library material;
- (d) managing library borrowing and inter-library loan facilities and information networks;
- (e) retrieving material and providing information to business and other users based on the collection itself or on library and information-network systems;
- (f) conducting research and analyzing or modifying library and information services in accordance with changes in users' needs;
- (g) devising and implementing schemes and conceptual models for the storage, organization, classification and retrieval of information;
- (h) preparing scholarly papers and reports;
- (i) performing manual, on-line and interactive media reference searches, making interlibrary loans and performing other functions to assist users in accessing library materials.

Examples of the occupations classified here:

- Bibliographer
- Cataloguer
- Librarian

	<b>Major Group</b>	<b>Professionals</b>
<b>26</b>	<b>Sub-major Group</b>	<b>Legal, social and cultural professionals</b>
<b>262</b>	<b>Minor Group</b>	<b>Librarians, archivists and curators</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2621</b>		<b>Archivists and curators</b>
	26211	Archivist
	26212	Curator, (art gallery/ museum)
	26213	Manager, data
	26214	Manager, information
	26215	Manager, records
	26216	Conservator
<b>2622</b>		<b>Librarians and related information professionals</b>
	26221	Librarian / Cataloguer (library)/ Bibliographer
	26222	Scientist, information (business services)
	26223	Scientist, information (technical information)/ Documentalist
	26224	Cataloguer
	26225	Officer, information
	26226	Scientist, information

### **63 Social and religious professionals**

Social and related professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to philosophy, politics, economics, sociology, anthropology, history, philology, languages, psychology, and other social sciences, or they provide social services to meet the needs of individuals and families in a community.

Tasks performed usually include:

Formulating and applying solutions to present or projected economic, political or social problems; researching into and analyzing past events and activities and tracing the origin and evolution of the human race; studying the origin and development of languages, or translating or interpreting them; studying mental processes and behaviour of individuals and groups; providing social services; preparing scholarly papers and reports. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 2631 Economists
- 2632 Sociologists, anthropologists and related professionals
- 2633 Philosophers, historians and political scientists
- 2634 Psychologists
- 2635 Social work and counselling professionals
- 2636 Religious professionals

#### **2631 Economists**

Economists conduct research, monitor data, analyze information and prepare reports and plans to

resolve economic and business problems and develop models to analyze, explain and forecast economic behaviour and patterns. They provide advice to business, interest groups and governments to formulate solutions to present or projected economic and business problems.

Tasks include -

- (a) forecasting changes in the economic environment for short-term budgeting, long-term planning and investment evaluation;
- (b) formulating recommendations, policies and plans for the economy, corporate strategies and investment, and undertaking feasibility studies for projects;
- (c) monitoring economic data to assess the effectiveness, and advise on the appropriateness, of monetary and fiscal policies;
- (d) forecasting production and consumption of specific products and services based on records of past production and consumption and general economic and industry-specific conditions;
- (e) preparing forecasts of income and expenditure, interest rates and exchange rates;
- (f) analyzing factors that determine labour force participation, employment, wages, unemployment and other labour market outcomes;
- (g) applying mathematical formulae and statistical techniques and apply to test economic theories and devise solutions to economic problems;
- (h) compiling, analyzing and interpreting economic data using economic theory and a variety of statistical and other techniques;
- (i) evaluating the outcome of political decisions concerning public economy and finances and advising on economic policy and possible courses of action in the light of past, present and projected economic factors and trends;
- (j) preparing scholarly papers and reports;
- (k) examining problems related to the economic activities of individual companies;
- (l) conducting research on market conditions in local, regional or national areas to set sales and pricing levels for goods and services, to assess market potential and future trends and to develop business strategies.

Examples of the occupations classified here:

- Econometrician
- Economic adviser
- Economic analyst
- Economist
- Labour economist

Some related occupations classified elsewhere:

- Statistician – 2120

## **2632 Sociologists, anthropologists and related professionals**

Sociologists, anthropologists and related professionals investigate and describe the structure of societies, the origin and evolution of societies, and the interdependence between environmental conditions and human activities. They provide advice on the practical application of their findings in the formulation of economic and social policies.

Tasks include -

- (a) conducting research on the origin, development, structure, social patterns, organizations and inter- relationships of human society;
- (b) tracing the origin and evolution of humanity through the study of changing characteristics and cultural and social institutions;
- (c) tracing the development of humanity through the material remains of its past, such as dwellings, temples, tools, pottery, coins, weapons, or sculpture;
- (d) studying physical and climatic aspects of areas and regions, and correlating these findings

- with economic, social and cultural activities;
- (e) developing theories, models and methods to interpret and describe social phenomena;
- (f) evaluating the outcome of political decisions concerning social policy;
- (g) analyzing and evaluating social data;
- (h) advising on the practical application of findings in the formulation of economic and social policies for population groups and regions, and for the development of markets;
- (i) preparing scholarly papers and reports.

Examples of the occupations classified here:

- Anthropologist
- Archaeologist
- Ethnologist
- Geographer
- Sociologist

### **2633 Philosophers, historians and political scientists**

Philosophers, historians and political scientists conduct research into the nature of human experience and existence, phases or aspects of human history, and political structures, movements and behaviour. They document and report on findings to inform and guide political and individual actions

Tasks include -

- (a) researching, mostly by reasoning, into the general causes, principles and meanings of the world, human actions, experience and existence, and interpreting and developing philosophical concepts and theories;
- (b) consulting and comparing primary sources, such as original or contemporary records of past events, and secondary sources such as archaeological or anthropological findings;
- (c) extracting relevant material, checking its authenticity, and researching into and describing the history of a particular period, country or region, or a particular facet - for example economic, social or political of its history;
- (d) conducting research in such fields as political philosophy, or past and present theory and practice of political systems, institutions or behaviour;
- (e) observing contemporary political institutions and opinions, collecting data on them from various sources, including interviews with government and political party officials and other relevant persons;
- (f) developing theories, models and methods to interpret and describe the nature of human experience and historical and political events and behaviour;
- (g) presenting findings and conclusions for publication or use by government, political parties or other organizations and interested persons;
- (h) preparing scholarly papers and reports.

Examples of the occupations classified here:

- Genealogist
- Historian
- Philosopher
- Political scientist

Some related occupations classified elsewhere:

- Political adviser – 2422



## **2634 Psychologists**

Psychologists research into and study the mental processes and behaviour of human beings as individuals or in groups, and apply this knowledge to promote personal, social, educational or occupational adjustment and development.

Tasks include -

- (a) planning and carrying out tests to measure mental, physical and other characteristics such as intelligence, abilities, aptitudes, potentialities, etc., interpreting and evaluating results, and providing advice;
- (b) analyzing the effect of heredity, social, occupational and other factors on individual thought and behaviour;
- (c) conducting counselling or therapeutic interviews with individuals and groups, and providing follow-up services;
- (d) maintaining required contacts, such as those with family members, educational authorities or employers, and recommending possible solutions to, and treatment of, problems;
- (e) studying psychological factors in the diagnosis, treatment and prevention of mental illnesses and emotional or personality disorders, and conferring with related professionals;
- (f) preparing scholarly papers and reports;
- (g) formulating achievement, diagnostic and predictive tests for use by teachers in planning methods and content of instruction;
- (h) conducting surveys and research studies on job design, work groups, morale, motivation, supervision and management;
- (i) developing theories, models and methods to interpret and describe human behaviour.

Examples of the occupations classified here:

- Clinical Psychologist
- Educational Psychologist
- Organizational Psychologist
- Psychotherapist
- Sports psychologist

Some related occupations classified elsewhere:

- Psychiatrist – 2212

## **2635 Social work and counseling professionals**

Social work and counseling professionals provide advice and guidance to individuals, families, groups, communities and organizations in response to social and personal difficulties. They assist clients to develop skills and access resources and support services needed to respond to issues arising from unemployment, poverty, disability, addiction, criminal and delinquent behaviour, marital and other problems.

Tasks include -

- (a) interviewing clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required;
- (b) analyzing the client's situation and presenting alternative approaches to resolving problems;
- (c) compiling case records or reports for courts and other legal proceedings;
- (d) providing counseling, therapy and mediation services and facilitating group sessions to assist clients to develop skills and insights needed to deal with and resolve their social and personal problems;
- (e) planning and implementing programs of assistance for clients including crisis intervention and referral to agencies that provide financial assistance, legal aid, housing, medical treatment and other services;
- (f) investigating cases of abuse or neglect and taking action to protect children and other at risk

- persons;
- (g) working with offenders during and after sentence, to help them to integrate into the community and to change attitudes and behaviour in order to reduce further offending;
  - (h) providing advice to prison governors and to probation and parole review boards that help determine whether, and under what conditions, an offender should be incarcerated, released from prison or undergo alternative correctional measures;
  - (i) acting as advocates for client groups in the community and lobbying for solutions to problems affecting them;
  - (j) developing prevention and intervention programs to meet community needs;
  - (k) maintaining contact with other social service agencies, educational institutions and health care providers involved with clients to provide information and obtain feedback on clients' overall situation and progress.

Examples of the occupations classified here:

- Addictions counselor
- Bereavement counselor
- Child and youth counselor
- Family counselor
- Marriage counselor
- Parole officer
- Probation officer
- Social worker
- Women's welfare organizer

Some related occupations classified elsewhere:

- Welfare worker - 3412

## **2636 Religious professionals**

Religious professionals function as perpetrators of sacred traditions, practices and beliefs. They conduct religious services, celebrate or administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion.

Tasks include -

- (a) perpetuating sacred traditions, practices and beliefs;
- (b) conducting religious services, rites and ceremonies;
- (c) undertaking various administrative and social duties, including participating in committees and meetings of religious organizations;
- (d) providing spiritual and moral guidance in accordance with the religion professed;
- (e) propagating religious doctrines in own country or abroad;
- (f) preparing religious sermons and preaching's;
- (g) developing and directing study courses and religious education programmes;
- (h) counseling individuals regarding interpersonal, health, financial, and religious problems;
- (i) scheduling and participating in special events such as camps, conferences, seminars, and retreats.

Examples of the occupations classified here:

- Bonze
- Imam
- Minister, religion
- Poojari
- Priest
- Rabbi

Some related occupations classified elsewhere:

- Lay preacher - 3413
- Monk - 3413
- Nun - 3413

#### Notes

Members of religious orders whose work involves performing the tasks of other occupations, for example as teachers, nurses or welfare support workers, should be classified according to the main tasks and duties performed in the job.

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>26</b>	<b>Sub-major Group</b>	<b>Legal, social and cultural professionals</b>
<b>263</b>	<b>Minor Group</b>	<b>Social and religious professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2631</b>		<b>Economists</b>
	26311	Economist (any specialism) / Economic advisor
	26312	Economic analyst
	26313	Econometrician
	26314	Adviser, economic policy
	26315	Consultant, economic development
	26316	Economist, labour
	26317	Macroeconomist
<b>2632</b>		<b>Sociologists, anthropologists and related professionals</b>
	26321	Pathologist, social / Sociologist, any specialism
	26322	Anthropologist / Ethnologist
	26323	Archaeologist / Engineer, archaeology
	26324	Criminologist / Penologist
	26325	Geographer, any specialism
	26326	Penologist/Researcher, social/Scientist, social
<b>2633</b>		<b>Philosophers, historians and political scientists</b>
	26331	Philosopher (any specialism)
	26332	Historian (any specialism)
	26333	Scientist, political
	26334	Genealogist
	26335	Futurologist
	26336	Researcher, peace
	26337	Researcher, political
<b>2634</b>		<b>Psychologists</b>
	26341	Clinical Psychologist/ Psychotherapist
	26342	Educational Psychologist/ Organizational Psychologist
	26343	Analyst, psychological
	26344	Psychologist, sports
	26345	Therapist, psychological
	26346	Psychometrist

Unit Group	Sub-unit Group	Description
<b>2635</b>		<b>Social work and counseling professionals</b>
	26351	Almoner (professional) / Caseworker, (child/family/social welfare) (professional)/ Housefather /mother (professional)
	26352	Social/welfare worker, medical/psychiatric (professional)
	26353	Social/welfare worker, community/cultural centre (professional)
	26354	Social/welfare worker, any other specialism (professional)
	26355	Warden, community centre/ probation home/ approved school (professional)
	26356	Officer, parole /probation (professional)/ Organiser, home help (professional)
	26357	Counselor, addictions/Counselor, bereavement/Counselor, child and youth/Counselor, family/Counselor, marriage/Counselor, sexual / assault/Housemaster/ professional: approved school/Housemistress, professional: approved school/Officer, district: social welfare/Officer, parole/Organizer, women's welfare/Professional, counseling/Psycho -educator
	26358	Therapist, family/Therapist, marriage/Therapist, relationship/Therapist, sex Warden, probation home: professional/Worker, delinquency: professional
<b>2636</b>		<b>Religious professionals</b>
	26361	Allama/ Hafiz/ Imam/ Khatib/ Maulana/ Moazzan/ Moullim/ Mufti/ Qari/ mullah
	26362	Bonze/ Member of religious orders (non-muslim)/ Counselor/ Minister, religion (clergyman)/ Talapoin/Poojari
	26363	Theologian
	26364	Bishop (arch-) / Chaplain/ Curate/ Missionary/ Monk (professional)/ Nun (professional)/ Pastor/ Priest/ Rabbi/ Vicar/Rector, Religion/ Monsignor
	26365	Abbess/Abbot/Archdeacon/Canon/Deacon/Mother superior/Prior

## 264 Authors, journalists and linguists

Authors, journalists and linguists conceive and create literary works, interpret and communicate news and public affairs through the media and translate or interpret from one language into another.

Tasks performed usually include:

Writing literary works; appraising merits of literary and other works of art; collecting information about current affairs and writing about them; researching, investigating, interpreting and communicating news and public affairs through newspapers, television, radio and other media; translating written material from one language to another; simultaneously translating from one language to another.

Occupations in this minor group are classified into the following unit groups:

- 2641 Authors and related writers
- 2642 Journalists

## **2641 Authors and related writers**

Authors and related writers plan, research and write books, scripts, storyboards, plays, essays, speeches, manuals, specifications and other non-journalistic articles (excluding material for newspapers, magazines and other periodicals) for publication or presentation.

Tasks include:

- (a) conceiving, writing and editing novels, plays, scripts, poetry and other material for publication or presentation;
- (b) conducting research to establish factual content and to obtain other necessary information;
- (c) writing scripts and continuities and preparing programmes for stage, film, radio and television productions;
- (d) analyzing material, such as specifications, notes and drawings, and writing manuals, user guides and other documents to explain clearly and concisely the installation, operation and maintenance of software, electronic, mechanical and other equipment;
- (e) writing brochures, handbooks and similar technical publications;
- (f) selecting material for publication, checking style, grammar and accuracy of content, arranging for any necessary revisions and checks proof copies before printing.

Examples of the occupations classified here:

- Author
- Book editor
- Essayist
- Interactive media writer
- Novelist
- Playwright
- Poet
- Script writer
- Speech writer
- Technical writer
- Writer

Some related occupations classified elsewhere:

- Advertising copy writer - 2431
- Public relations copy writer - 2432
- Journalist - 2642
- Newspaper editor- 2642

## **2642 Journalists**

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.

Tasks include:

- (a) collecting local, national and international news through interviews, investigation and observation, attending public events, seeking out records, reviewing written work, attending film and stage performances;
- (b) collecting, reporting and commenting on news and current affairs for publication in newspapers and periodicals, or for broadcasting by radio, television or webcast media;
- (c) receiving, analyzing and verifying news and other copy for accuracy;
- (d) interviewing politicians and other public figures at press conferences and on other occasions, including individual interviews recorded for radio, television or webcast media;
- (e) researching and reporting on developments in specialized fields such as medicine, science

- and technology;
- (f) writing editorials and commentaries on topics of current interest to stimulate public interest and express the views of a publication or broadcasting station;
- (g) writing critical reviews of literary, musical and other artistic works based on knowledge, judgment and experience for newspapers, television, radio and other media;
- (h) selecting material for publication, checking style, grammar, accuracy and legality of content and arranging for any necessary revisions;
- (i) liaising with production staff in checking final proof copies immediately prior to printing;
- (j) selecting, assembling and preparing publicity material about business or other organizations for issue through press, radio, television and other media.

Examples of the occupations classified here:

- Journalist
- Copy editor
- Newspaper editor
- Newspaper reporter
- Sports writer
- Sub editor
- TV/ radio news reporter,

Some related occupations classified elsewhere:

- Public relations officer- 2432
- Book author - 2641
- Book editor – 2641
- Photo journalist - 3431
- Camera operator – 3521

## **2643 Translators, interpreters and other linguists**

Translators, interpreters and other linguists translate or interpret from one language into another and study the origin, development and structure of languages.

Tasks include:

- (a) studying relationships between ancient parent languages and modern language groups, tracing the origin and evolution of words, grammar and language forms, and presenting findings;
- (b) advising on or preparing language classification systems, grammars, dictionaries and similar materials;
- (c) translating from one language into another and ensuring that the correct meaning of the original is retained, that legal, technical or scientific works are correctly rendered, and that the phraseology and terminology of the spirit and style of literary works are conveyed as far as possible;
- (d) developing methods for the use of computers and other instruments to improve productivity and quality of translation;
- (e) interpreting from a spoken or a signed language into another spoken or signed language in particular at conferences, meetings and similar occasions, and ensuring that the correct meaning and, as far as possible, the spirit of the original are transmitted;
- (f) revising and correcting translated material.

Examples of the occupations classified here:

- Interpreter
- Lexicographer
- Philologist
- Sign language interpreter
- Subtitler

- Translator
- Translator-reviser

Some related occupations classified elsewhere:

- Author - 2641
- Book editor - 2641
- Journalist – 2642

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>26</b>	<b>Sub-major Group</b>	<b>Legal, social and cultural professionals</b>
<b>264</b>	<b>Minor Group</b>	<b>Authors, journalists and linguists</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2641</b>		<b>Authors and related writers</b>
	26411	Author/ Biographer / Critic (any specialism)/Communicator, technical
	26412	Calligrapher / Katib
	26413	Poet
	26414	Writer (certificate/ continuity/ drama/ feature/ handbook/ song lyric/ script/ technical)/ Dramatist / Novelist/ Essayist
	26415	Writer (public information / publicity)
	26416	Editor, books / Editor, continuity/Editor, proofreading/Editor, script
	26417	Copy holder, / Proof Reader/Copywriter, technical/Writer, documentation/Writer, interactive media/Writer, scenario/Writer, short story/Writer, speech/song
	26418	Writer, creative/ <b>Indexer/Lyricist/Playwright</b>
<b>2642</b>		<b>Journalists</b>
	26421	Columnist / Assistant, editorial
	26422	Editor/Editor-in-chief (sub-), newspaper/periodical
	26423	Correspondent (newspaper/journal/other)
	26424	Journalist (any medium) / Writer, news
	26425	Reporter, journalism/media (any subject)/ Blogger/Critic, art/Editor, city/Editor, copy/Editor, fashion/Editor, features/Editor, financial/Editor, foreign/Editor, political/Editor, press/Editor, sports
	26426	Commentator, (news/sports/weather/ motion picture)/ Producer, news: TV/radio/Reporter, crime/Reporter, fashion/Reporter, news: TV/radio/Writer, sports
<b>2643</b>		<b>Translators, interpreters and other linguists</b>
	26431	Etymologist/ Philologist (any specialism)
	26432	Translator
	26433	Interpreter
	26434	Linguist / Phonologist
	26435	Lexicographer / Lexicologist/ Graphologist / Morphologist
	26436	Semasiologist
	26437	Subtitler
	26438	Writer, dictionary

## **265 Creative and performing artists**

Creative and performing artists communicate ideas, impressions and facts in a wide range of media to achieve particular effects; interpret a composition such as a musical score or a script to perform or direct the performance; and host the presentation of such performance and other media events.

Tasks performed usually include:

Conceiving and creating visual art forms; conceiving and writing original music; devising, directing, rehearsing and performing in music, dance, theatrical and film productions; assuming creative, financial and organizational responsibilities in the production of television programmes, films, and stage presentations; studying script, play or book and preparing and rehearsing interpretation; selecting and introducing music, videos and other entertainment material for broadcast and making commercial and public service announcements.

Occupations in this minor group are classified into the following unit groups:

- 2651 Visual artist
- 2652 Musicians, singers and composers
- 2653 Dancers and choreographers
- 2654 Film, stage and related directors and producers
- 2655 Actors
- 2656 Announcers on radio, television and other media
- 2659 Creative and performing artists not elsewhere classified

### **2651 Visual artists**

Visual artists create and execute works of art by sculpting, painting, drawing, creating cartoons, engraving or using other techniques.

Tasks include -

- (a) conceiving and developing ideas, designs and styles for paintings, drawings and sculptures;
- (b) arranging objects, positioning models, and selecting landscapes and other visual forms according to chosen subject matter;
- (c) selecting artistic media, method and materials;
- (d) creating representational or abstract three-dimensional or relief forms by shaping, carving and working and combining materials such as, wood, stone, clay, metal, ice or paper;
- (e) creating representational or abstract drawings and paintings using pencils, ink, chalk, oil paints, water colours or through the application of other techniques;
- (f) creating drawings and engraving or etching them on metal, wood, or other materials;
- (g) creating cartoons to depict persons and events, often in caricature;
- (h) restoring damaged, soiled and faded paintings and other art objects.

Examples of the occupations classified here:

- Cartoonist
- Ceramic artist
- Commercial artist
- Picture restorer
- Portrait painter
- Sculptor

Some related occupations classified elsewhere:

- Handicraft workers - 731
- Industrial designer – 2163
- Graphic designer - 2166



## **2652 Musicians, singers and composers**

Musicians, singers and composers write, arrange, conduct and perform musical compositions.

Tasks include -

- (a) creating melodic, harmonic and rhythmic structures to express ideas and emotions in musical form;
- (b) translating ideas and concepts into standard musical signs and symbols for reproduction and performance;
- (c) adapting or arranging music for particular instrumental or vocal groups, instruments or occasions;
- (d) conducting instrumental or vocal groups;
- (e) selecting music for performances and assigning instrumental parts to musicians;
- (f) playing one or more musical instruments as a soloist or as a member of an orchestra or a musical group;
- (g) singing as soloists or members of vocal groups or other bands;
- (h) practicing and rehearsing to maintain a high standard of performance.

Examples of the occupations classified here:

- Band leader
- Composer
- Instrumentalist
- Music conductor
- Night club musician
- Night club singer
- Orchestrator
- Singer
- Street musician
- Street singer

## **2653 Dancers and choreographers**

Dancers and choreographers conceive and create or perform dances.

Tasks include -

- (a) conceiving and creating dances, which often convey a story, theme, idea or mood, by a pattern of steps, movements and gestures;
- (b) performing dances as a soloist, with a partner or as a member of a dancing group before live audiences or for film, television or other visual media;
- (c) training ,exercising and attending dance classes to maintain the required levels of ability and fitness;
- (d) directing and participating in rehearsals to practice dance steps and techniques required for a performance;
- (e) auditioning for dance roles or for memberships in dance companies;
- (f) coordinating the production music with the music directors.

Examples of the occupations classified here:

- Choreographer
- Ballet Dancer
- Night-club dancer
- Street dancer

Some related occupations classified elsewhere:

- Dance teacher – 2355

## **2654 Film, stage and related directors and producers**

Film, stage and related directors and producers oversee and control the technical and artistic aspects of motion pictures, television or radio productions and stage shows.

Tasks include -

- choosing writers, studying scripts to determine artistic interpretation, and instructing actors on acting methods;
- directing all aspects of dramatic productions on stage, television, radio or in motion pictures, including choice of actors, and final decisions concerning costumes, set designs, sound or lighting effects;
- planning, organizing and controlling the various stages and scheduling involved in the production of presentations, motion pictures, television shows and radio programs;
- engaging and supervising all technical personnel, and determining the treatment, scope and scheduling of production;
- maintaining production archives and negotiating royalties;
- creating, planning, writing scripts for recording, videotaping and editing programs;
- supervising the positioning of scenery, props and lighting and sound equipment.

Examples of the occupations classified here:

- Documentary director
- Film editor
- Motion picture director
- Director of photography
- Stage director
- Technical director
- Technical television or radio director
- Theatre producer

Some related occupations classified elsewhere:

- TV news producer -2642
- Broadcasting technician - 3521
- Sound technician - 3521
- Video technician - 3521
- Stage manager – 3435

## **2655 Actors**

Actors portray roles in motion pictures, television or radio productions and stage shows.

Tasks include -

- learning lines and cues and playing parts in dramatic productions on stage, commercials, television, radio or in motion pictures;
- assuming characters created by a playwright or author and communicating this to an audience;
- telling stories or reading literary works aloud to educate or entertain listeners;
- attending auditions and casting calls in order to audition for roles;
- preparing for performances through rehearsals under the instruction and guidance of production directors;

- (f) reading scripts and undertaking research to gain understanding of parts, themes and characteristics;
- (g) acting parts and portraying roles as developed in rehearsals in film, television, radio and stage productions.

Examples of the occupations classified here:

- Actor
- Mime artist
- Story-teller

Some related occupations classified elsewhere:

- Stunt artist - 3435
- Walker-on – 3435

## **2656 Announcers on radio, television and other media**

Announcers on radio, television and other media read news bulletins, conduct interviews, and make other announcements or introductions on radio, television, and in theatres and other establishments or media

Tasks include -

- (a) reading news bulletins and making other announcements on radio or television;
- (b) introducing performing artists or persons being interviewed, and making related announcements on radio, television, or in theatres, night-clubs and other establishments;
- (c) interviewing persons in public, especially on radio and television;
- (d) studying background information in order to prepare for programs or interviews;
- (e) commenting on music and other matters, such as weather or traffic conditions.

Examples of the occupations classified here:

- Radio announcer
- Television announcer
- News anchor
- Sports announcer

Some related occupations classified elsewhere:

Journalist- 2642

## **2659 Creative and performing artists not elsewhere classified**

This unit group covers all creative and performing artists not classified elsewhere in minor group 265, Creative and performing artists. For instance, the group includes clowns, magicians, acrobats and other performing artists.

In such cases tasks would include:

- (a) performing amusing antics and telling funny stories;
- (b) performing tricks of illusion and sleight of hand, and feats of hypnotism;
- (c) performing difficult and spectacular acrobatics, and gymnastic or juggling feats;
- (d) training and performing with animals.

Examples of the occupations classified here:

- Acrobat
- Aerialist
- Clown
- Hypnotist
- Magician
- Puppeteer
- Stand-up comedian
- Ventriloquist

<b>2</b>	<b>Major Group</b>	<b>Professionals</b>
<b>26</b>	<b>Sub-major Group</b>	<b>Legal, social and cultural professionals</b>
<b>265</b>	<b>Minor Group</b>	<b>Creative and performing artists</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>2651</b>		<b>Visual artists</b>
	26511	Modeler, sculpture
	26512	Artist (graphic/ layout/ paintings/ poster/ creative/ landscape/ commercial/ fashion creation)
	26513	Painter, miniatures/ portrait/ picture restorer
	26514	Caricaturist / Cartoonist, motion picture
	26515	Engraver (creative/ artistic) /Artist, ceramic
	26516	Engraver-etcher, artistic
	26517	Restorer, picture
	26518	Sculptor
<b>2652</b>		<b>Musicians, singers and composers</b>
	26521	Arranger/ Composer, music
	26522	Choirmaster / chorus master/ conductor (orchestra/ vocal group)/ band leader/ bandmaster
	26523	Bassoonist/ Bugler/ Cellist/ Clarinettist/ <b>Guitarist/Harpist/Mezzo-soprano/Oboist/ Organist/Percussionist/Pianist/Prombonist/Sarang/Singer, bass/ choir/concert/ jazz/opera/ popular music//Sitar Player/Trumpeter</b>
	26524	Singer (street/night-club)/ vocalist/ Contralto / Baritone/ Kawal
	26525	Musicologist/ music transcriber
	26526	Musician (street/ night-club)/Arranger, music/Baritone/Contralto/ Ethnomusicologist Instrumentalist/Leader, band/Musician, instrumental/orchestrator/Player, musical instrument/Saxophonist
	26527	Teacher, music (private) /Singer, nightclub/Singer, street/Soprano/Tenor/Transcriber, music Trombonist/Violinist
	26528	Accompanist/Tympanist/Bell-ringer/Cometist/Flautist
<b>2653</b>		<b>Dancers and choreographers</b>
	26531	Arranger, ballet
	26532	Choreographer
	26533	Ballerina
	26534	Dancer, (ballet/ ballroom/ folk/ chorus/ night-club/ tap)/Dancer, street/Dancer, Stripper, nightclub
	26535	<b>Artist, strip-tease</b>

Unit Group	Sub-Unit Group	Description
<b>2654</b>		<b>Film, stage and related directors and producers</b>
	26541	Department -manager, production and operations (stage)
	26542	Director (dance/ motion picture/ music/ radio/television/ stage/ theatrical)
	26543	Coach, dramatic
	26544	Duplicator (motion picture)
	26545	Impresario// Impersonator
	26546	Producer (motion picture / radio/ stage/ television/ theatre)
	26547	Director, photography/Director, technical
	26548	Editor, film/Editor, video/Producer, theatre/ Director, artistic/Director casting/ Producer, record
<b>2655</b>		<b>Actors</b>
	26551	Actor/actress (any specialism)/ Artist (dramatic)
	26552	Story-teller (any medium)
	26553	Mime ,artist
<b>2656</b>		<b>Announcers on radio, television and other media</b>
	26561	Announcer, news (radio/Television/sports/weather)
	26562	News anchor/ sports anchor/ Compere/ Interviewer, media
	26563	Supervisor, announcer
	26564	Disc jockey
	26565	Host, talk show/Hostess, talk show/Reporter, /traffic/Reporter, weather
<b>2659</b>		<b>Creative and performing artists not elsewhere classified</b>
	26591	Acrobat/ Aerialist / Artist (high-wire/ tight-rope/ trapeze ) / Juggler/ Muddari/ Tumbler
	26592	Clown/ comic actor/ / Imitator/ Hypnotist
	26593	Illusionist/ Magician/ Prestidigitator/ conjuror
	26594	Tamer/trainer, wild animal
	26595	<b>Puppeteer</b> / Contortionist
	26596	Comedian/Comedian, stand-up
	26597	Impersonator/Jockey, disc/Trainer, wild animals/Ventriloquist

## **Major Group 3**

### **Technicians and Associate Professionals**

Technicians and associate professionals perform mostly technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations. Most occupations in this major group require skills at the third ISCO skill level.

Tasks performed by technicians and associate professionals usually include: undertaking and carrying out technical work connected with research and the application of concepts and operational methods in the fields of physical sciences including engineering and technology, life sciences including the medical profession, and social sciences and humanities; initiating and carrying out various technical services related to trade, finance, administration, including administration of government laws and regulations, and to social work; providing technical support for the arts and entertainment; participating in sporting activities; executing some religious tasks. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 31 Science and engineering associate professionals
- 32 Health associate professionals
- 33 Business and administration associate professionals
- 34 Legal, social, cultural and related associate professionals
- 35 Information and communications technician

#### **31 Science and engineering associate professionals**

Science and engineering associate professionals perform technical tasks connected with research and operational methods in science and engineering. They supervise and control technical and operational aspects of mining, manufacturing, construction and other engineering operations, and operate technical equipment including aircraft and ships.

Tasks performed by workers in this sub-major group usually include:

Setting up, monitoring and operating Instruments and equipment, conducting and monitoring experiments and tests of systems; collecting and testing samples; recording observations and analyzing data; preparing, revising and interpreting technical drawings and diagrams; coordinating, supervising, controlling and scheduling the activities of other workers; operating and monitoring switchboards, computerized control systems, and multi-function process control machinery; perform technical functions to ensure safe and efficient movement and operations ships aircraft and other equipment.

Occupations in this sub-major group are classified into the following minor groups:

- 311 Physical and engineering science technicians
- 312 Mining, manufacturing and construction supervisors
- 313 Process Control Technicians
- 314 Life science technicians and related associate professionals
- 315 Ship and aircraft controllers and technicians

### **311 Physical and engineering science technicians**

Physical and engineering science technicians perform technical tasks to aid in research on and the practical application of concepts, principles and operational methods particular to physical sciences including such areas as engineering, technical drawing or economic efficiency of production processes.

Tasks performed usually include:

Undertaking and carrying out technical work related to chemistry, physics, geology, meteorology, astronomy, engineering, or technical drawing; setting up, operating, and maintaining laboratory instruments and equipment, monitoring experiments, making observations, and calculating and recording results; preparing materials for experimentation; conducting tests of systems; collecting and testing samples; recording observations and analyzing data; preparing, revising and interpreting technical drawings, wiring diagrams, circuit board assembly diagrams, or layout drawings.

Occupations in this minor group are classified into the following unit groups:

- 3111 Chemical and physical science technicians
- 3112 Civil engineering technicians
- 3113 Electrical engineering technicians
- 3114 Electronics engineering technicians
- 3115 Mechanical engineering technicians
- 3116 Chemical engineering technicians
- 3117 Mining and metallurgical technicians
- 3118 Draughts persons
- 3119 Physical and engineering science technicians not elsewhere classified

#### **3111 Chemical and physical science technicians**

Chemical and physical science technicians perform technical tasks to aid in research in chemistry, physics, geology, geophysics, meteorology and astronomy, and in the development of industrial, medical, military and other practical applications of research results.

Tasks include -

- (a) collecting samples and preparing materials and equipment for experiments, tests and analyses;
- (b) carrying out routine laboratory tests and performing a variety of technical support functions to assist chemical and physical scientists in research, development, analysis and testing;
- (c) controlling the quality and quantity of laboratory supplies by testing samples and monitoring usage and preparing detailed estimates of quantities and costs of materials and labour required for projects, according to the specifications given;
- (d) setting up, operating, and maintaining laboratory instruments and equipment, monitoring experiments, making observations, and calculating and recording results;
- (e) preparing materials for experimentation such as freezing and slicing specimens and mixing chemicals;
- (f) collecting and testing earth and water samples, recording observations and analyzing data in support of geologists or geophysicists.

Examples of the occupations classified here:

- Chemistry technician
- Geology technician
- Meteorology technician
- Physics technician

Some related occupations classified elsewhere:

- Chemical engineering technician - 3116
- Life science technician - 3141

### **3112 Civil engineering technicians**

Civil engineering technicians perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures, such as water supply and wastewater treatment systems, bridges, roads, dams and airports.

Tasks include -

- (a) performing or assisting with field and laboratory tests of soils and construction materials;
- (b) providing technical assistance connected with the construction of buildings and other structures, and with surveys or the preparation of survey reports;
- (c) ensuring compliance with design specifications, relevant legislation and regulations, and maintenance of desired standards of materials and work;
- (d) applying technical knowledge of building and civil engineering principles and practices in order to identify and solve problems arising;
- (e) assisting with the preparation of detailed estimates of quantities and costs of materials and labour required for projects, according to the specifications given;
- (f) organizing maintenance and repairs
- (g) inspecting buildings and structures during and after construction to ensure that they comply with building, grading, zoning and safety laws and approved plans, specifications and standards, as well as with other rules concerning quality and safety of buildings;
- (h) inspecting industrial plant, hotels, cinemas and other buildings and structures to detect fire hazards and advise on how they can be removed;
- (i) advising on the installation of fire detectors and sprinkler systems and the use of materials in the construction of buildings and means of transportation to reduce risk of fire and extent of damage and danger if fire occurs.

Examples of the occupations classified here:

- Building inspector
- Clerk of Works
- Civil engineering technician
- Fire inspector
- Geotechnical technician
- Surveying technician

Some related occupations classified elsewhere:

- Quantity Surveyor - 2149
- Marine Surveyor - 3115
- Fire investigator - 3119

### **3113 Electrical engineering technicians**

Electrical engineering technicians perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.

Tasks include -

- (a) providing technical assistance in research on and development of electrical equipment and facilities, or testing prototypes;
- (b) designing and preparing blueprints of electrical installations and circuitry according to the specifications given;



- (c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation according to the specifications given;
- (d) monitoring technical aspects of the manufacture, installation, utilization, maintenance and repair of electrical systems and equipment to ensure satisfactory performance and compliance with specifications and regulations;
- (e). planning installation methods, checking completed installation for safety and controls or undertaking the initial running of the new electrical equipment or systems;
- (f) assembling, installing, testing, calibrating, modifying and repairing electrical equipment and installations to conform with regulations and safety requirements.

Examples of the occupations classified here:

- Electrical engineering technician
- Electric power transmission engineering technician

Some related occupations classified elsewhere:

- Electronics engineering technician -3114
- Power production plant operator – 3131
- Electrical mechanic – 7241

### **3114 Electronics engineering technicians**

Electronics engineering technicians perform technical tasks to aid in electronic research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.

Tasks include -

- (a) providing technical assistance in research and development of electronic equipment, or testing prototypes;
- (b) designing and preparing blueprints of electronic circuitry according to the specifications given;
- (c) preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of electronic equipment, according to the specifications given;
- (d) monitoring technical aspects of the manufacture, utilization, maintenance and repair of electronic equipment to ensure satisfactory performance and ensure compliance with specifications and regulations;
- (e) assisting in the design, development, installation, operation and maintenance of electronic systems;
- (f) planning installation methods, checking completed installation for safety and controls or undertaking the initial running of the new electronic equipment or system;
- (g) conducting tests of electronic systems, collecting and analyzing data, and assembling circuitry in support of electronics engineers.

Examples of the occupations classified here:

- Electronics engineering technician

Some related occupations classified elsewhere:

- Electrical engineering technician - 3113
- Telecommunications engineering technician – 3522
- Electronics mechanic – 7421
- Electronic equipment assembler – 8212

### **3115 Mechanical engineering technicians**

Mechanical engineering technicians perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.

Tasks include -

- (a) providing technical assistance in research on and development of machines and mechanical installations, facilities and components, or testing prototypes;
- (b) designing and preparing layouts of machines and mechanical installations, facilities and components according to the specifications given;
- (c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation according to the specifications given;
- (d) monitoring technical aspects of manufacture, utilization, maintenance and repair of machines and mechanical installations, facilities and components to ensure satisfactory performance and compliance with specifications and regulations;
- (e) developing and monitoring the implementation of safety standards and procedures for marine service work in relation to ships' hulls, equipment and cargoes;
- (f) assembling and installing new and modified mechanical assemblies, components, machine tools and controls, and hydraulic power systems;
- (g) conducting tests of mechanical systems, collecting and analyzing data, and assembling and installing mechanical assemblies in support of mechanical engineers;
- (h) ensuring that mechanical engineering designs and finished work are within specifications, regulations and contract provisions.

Examples of the occupations classified here:

- Aeronautics engineering technician
- Marine engineering technician
- Mechanical engineering technician
- Mechanical engineering estimator

Some related occupations classified elsewhere:

- Industrial machinery mechanic, - 7233
- Mechanical machinery assembler – 8211

### **3116 Chemical engineering technicians**

Chemical engineering technicians perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.

Tasks include -

- (a) assisting in research on and development of industrial chemical processes, plant and equipment, or testing prototypes;
- (b) designing and preparing layouts of chemical plants according to the specifications given;
- (c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation according to the specifications given;
- (d) monitoring technical aspects of the construction, installation, operation, maintenance and repair of chemical plants to ensure satisfactory performance and compliance with specifications and regulations;
- (e) conducting chemical and physical laboratory tests to assist scientists and engineers in making qualitative and quantitative analyses of solids, liquids, and gaseous materials.

Examples of the occupations classified here:

- Chemical engineering technician

- Chemical engineering estimator
- Petroleum engineering technician

Some related occupations classified elsewhere:

- Chemical technician - 3111

### **3117 Mining and metallurgical technicians**

Mining and metallurgical technicians perform technical tasks to assist in research and experiments related to metallurgy, in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair of mines and mine installations, of systems for transporting and storing oil and natural gas, and for extraction of metals from ores.

Tasks include -

- (a) providing technical assistance to aid in research on and development of processes to determine the properties of metals and new alloys;
- (b) providing technical assistance in geological and topographical surveys, and in the design and layout of oil, natural gas and mineral ore extraction and transportation systems, and processing and refining plants for minerals and metals;
- (c) preparing detailed estimates of quantities and costs of materials and labour required for mineral, oil and natural gas exploration, extraction, processing and transport projects;
- (d) monitoring technical, regulatory and safety aspects of the construction, installation, operation, maintenance and repair of mineral ore, oil and natural gas exploration, extraction, transport and storage installations and of mineral processing plants;
- (e) helping plan and design mines, mine shafts, tunnels and underground first-aid facilities;
- (f) collecting and preparing rock, mineral and metal samples, performing laboratory tests to determine properties, analyzing and reporting test results and maintaining testing equipment;
- (g) using microscopes, electromagnetic irradiation machines, spectrometers, spectrographs, densitometers and tension testing machines;
- (h) assisting scientists in the use of electrical, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential sources of metallic ore, gas, or petroleum.

Examples of the occupations classified here:

- Mines inspector
- Mining engineering technician
- Metallurgical technician

Some related occupations classified elsewhere:

- Mining plant operator - 8111
- Miner - 8111
- Quarrier - 8111
- Geology technician – 3111

### **3118 Draughts persons**

Draughts persons prepare technical drawings, maps and illustrations from sketches, measurements and other data, and copy final drawings and paintings onto printing plates.

Tasks include -

- (a) preparing and revising working drawings from sketches and specifications prepared by engineers and designers for the manufacture, installation and erection of machinery and equipment or for the construction, modification, maintenance and repair of buildings, dams, bridges, roads and other architectural and civil engineering projects;
- (b) operating computer-aided design and drafting equipment to create, modify and generate

- hard-copy and digital representations of working drawings;
- (c) operating digitising table or similar equipment to transfer hard-copy representation of working drawings, maps and other curves to digital form;
- (d) preparing and revising illustrations for reference works, brochures and technical manuals dealing with the assembly, installation, operation, maintenance and repair of machinery and other equipment and goods;
- (e) copying drawings and paintings onto stone or metal plates for printing;
- (f) preparing wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment in factories, power plants, and buildings;
- (g) creating detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information;
- (h) arranging for completed drawings to be reproduced for use as working drawings.

Examples of the occupations classified here:

- Draughts person
- Technical illustrator

Some related occupations classified elsewhere:

- Cartographer - 2165
- Surveyor - 2165

### **3119 Physical and engineering science technicians not elsewhere classified**

This unit group covers physical and engineering science technicians not classified elsewhere in Minor group 311, Physical and engineering science technicians. For instance, the group includes those who assist scientists and engineers engaged in developing procedures or conducting research on safety, biomedical, environmental or industrial and production engineering.

In such cases tasks would include –

- (a) collecting data and providing technical assistance regarding: efficient, safe and economic utilization of personnel, material and equipment; methods of work and sequence of operations and supervision of their implementation; and efficient layout of plant or establishment;
- (b) aiding in the identification of potential hazards and introducing safety procedures and devices;
- (c) modifying and testing equipment and devices used in the prevention, control, and remediation of environmental pollution, site remediation, and land reclamation;
- (d) assisting in the development of environmental pollution remediation devices under the direction of an engineer;
- (e) assisting engineers in testing and designing robotics equipment.

Examples of the occupations classified here:

- Engineering technician (production)
- Time and motion study technician
- Quantity surveying technician
- Robotics technician
- Forensic science technician
- Fire investigator

Some related occupations classified elsewhere:

- Production engineer - 2149
- Time and motion study engineer - 2149
- Quantity surveyor - 2149
- Aeronautics engineering technician – 3115

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>31</b>	<b>Sub-major Group</b>	<b>Science and engineering associate professionals</b>
<b>311</b>	<b>Minor Group</b>	<b>Physical and engineering science technicians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3111</b>		<b>Chemical and physical science technicians</b>
	31111	Assistant, laboratory (chemical/educational institutes/medical)
	31112	Technician (chemistry/physics/astronomy/geology/geophysics/ meteorology/ oceanography)
	31113	Tester, petroleum refinery
<b>3112</b>		<b>Civil engineering technicians</b>
	31121	Civil-engineering technician (construction/dredging/hydraulics/hydrology/ irrigation/public /health/sanitary/ soil mechanics/structural)
	31122	Technician/ Technician (civil)/ Instrument man, surveying
	31123	Technician ,research laboratory
	31124	Overseer (civil)/ Consultant, fire prevention/Surveyor, building
	31125	Supervisor, water and sewer system/ Technician, engineering: civil/ Technician, geotechnical
	31126	Estimator, civil- engineering
	31127	Clerk of works
	31128	Inspector, building/ Inspector, fire/ Specialist, fire prevention
<b>3113</b>		<b>Electrical engineering technicians</b>
	31131	Electrical-engineering technician (electric illumination/electric power/high voltage/systems)
	31132	Technician, (electrical laboratory/illumination/ power generation and transmission (electricity)
	31133	Estimator, electrical-engineering/ Tester, battery
	31134	Inspector (chief), electric
	31135	Inspector, safety and health (electricity)
<b>3114</b>		<b>Electronics engineering technicians</b>
	31141	Electronics-engineering technician (any specialism)
	31142	Technician, engineering (aerospace)
	31143	Estimator, engineering (electronics)
	31144	Inspector and tester, electrical and electronic products
	31145	Inspector, line (telephone/telegraph)
	31146	Tester, electronic systems/ components
	31147	Assistant, computer: engineering (hardware)/Inspector, quality: electronic products Technician, engineering: computer hardware design/Technician, engineering: instrumentation/Technician, engineering: semiconductors
<b>3115</b>		<b>Mechanical engineering technicians</b>
	31151	Estimator, engineering (mechanical)
	31152	Mechanical-engineering technician (air-conditioning/ heating /ventilation /refrigeration/ internal combustion/(any specialism))

Unit Group	Sub-Unit Group	Description
	31153	Mechanical-engineering technician ( automotive/ diesel/ gas turbine/ instruments/ jet engine/ lubrication/ motor/ locomotive engineering / other
	31154	Mechanical-engineering technician ( industrial machinery and tools/ agriculture)
	31155	Technician( laboratory (mechanical) / quality control (mechanical)/ engineering (any specialism)
	31156	Surveyor, marine/ Supervisor, dry dock/ Dock master, dry/graving dock
	31157	Inspector (rail road car/ quality (mechanical products)
	31158	Technician, engineering: internal combustion/ marine mechatronics/ naval/ nuclear power/ ship (construction))/Technician, mechatronics: engineering
<b>3116</b>		<b>Chemical engineering technicians</b>
	31161	Technician, chemical- engineering (petroleum)/ (process)
	31162	Technician, engineering (natural gas production and distribution)/ (petroleum)
	31163	Technician, (leather/ paint/ paper/ plastics/ rubber/ wood)
	31164	Tester, pulp and paper
	31165	Technician, (agricultural/ production engineering)
	31166	Estimator, engineering (chemical)
<b>3117</b>		<b>Mining and metallurgical technicians</b>
	31171	Technician, (mining- engineering (any specialism))/(metallurgy (any specialism)/ Sampler (mine/ quarry)
	31172	Tester (metallurgical / mining and quarrying/ oil well)
	31173	Assistant, laboratory (metallurgical)/ Attendant, core house
	31174	Inspector, oil pipe/ Inspector, coal/Inspector, safety: mines
	31175	Operator, testing (oil well tester)
	31176	Theater (gas (natural gas)/ well acidizing)
	31177	Shooter, oil and gas wells/ (Acidiser/ Cementer, oil and gas well)
	31178	Inspector, mining / Sampler, coal/Sampler, mine/Sampler, ore/Sampler, underground/ Technician, engineering: petroleum and natural gas extraction/Tester, hardness/Treater, well acidising
<b>3118</b>		<b>Draughts persons</b>
	31181	Draughtsman/ Draughts person ((all kind of mechanical-engineering /marine/ aeronautical/ civil)/ Architectural/Cartographical/die/ electrical/electronic)
	31182	Draughts person(geological/lithographic/technical/topographical)/ mechanical (automotive / heating/ industry/motors and engines except marine/other)
	31183	Lithographer/Tracer/(Illustrator (engineering/geological/technical)
	31184	Draughts person, CAD
	31185	Draughts person, civil
	31186	Draughts person, jig and tool
	31187	Draughts person, structural
	31188	Draughts person, topographical

Unit Group	Sub-Unit Group	Description
<b>3119</b>		<b>Physical and engineering science technicians not elsewhere classified</b>
	31191	Technician, engineering (industrial efficiency/methods/planning/systems (except computers)
	31192	Technician, engineering (time and motion study/work study/industrial layout/production/safety/value)
	31193	Technician, quantity surveying
	31194	Fire investigator
	31195	Technician( forensic science/robotics)

## **312 Mining, manufacturing and construction supervisors**

Mining, manufacturing and construction supervisors co-ordinate, supervise, control and schedule the activities of workers in manufacturing, mining and construction operations.

Tasks performed usually include:

Overseeing, supervising and coordinating the activities of tradespersons, process control technicians, machine operators, assemblers, labourers and other workers; organizing and planning daily work; preparing cost estimates, records and reports; identifying shortages of staff or supplies; ensuring safety of workers; instructing and training new staff.

Occupations in this minor group are classified into the following unit groups:

- 3121 Mining supervisors
- 3122 Manufacturing supervisors
- 3123 Construction supervisors

### **Notes**

Jobs classified in minor group 312, Mining, manufacturing and construction supervisors, mainly involve planning, organizing, coordinating, controlling and directing the work done by others. Most of the time workers employed in these jobs do not perform the tasks performed by those they supervise, although they frequently have extensive experience in performance of these tasks. Those who carry out the tasks and duties of the jobs they supervise, in addition to controlling the technical quality of the work done by others, should be classified with the workers they supervise. These supervisory jobs often are called “foremen/women” or “team leaders”.

In distinguishing between managers classified in major group 1, Managers, and supervisors, classified in other major groups, it should be noted that both managers and supervisors may plan, organize, co-ordinate, control and direct the work done by others. In addition, managers usually have responsibility for and make decisions about: the overall strategic and operational direction of a business or organizational unit (for example about the kinds, quantity and quality of goods to be produced); budgets (how much money is to be spent and for what purposes); and the selection, appointment and dismissal of staff. Supervisors may provide advice and assistance to managers on these matters, especially in relation to staff selection and dismissal, but do not have authority to make decisions.

## **3121 Mining supervisors**

Mining supervisors oversee mining and quarrying operations and directly supervise and coordinate the activities of miners working in underground and surface mines and quarries.

Tasks include -

- (a) directly supervising and coordinating the activities of workers who extract minerals and



- other natural deposits from the earth, operate underground conveyances or heavy equipment in surface mines and quarries;
- (b) establishing methods to meet work schedules and recommending measures to mining managers to improve productivity;
- (c) working with managerial and technical personnel, other departments and contractors to resolve operational problems and coordinate activities;
- (d) providing reports and other information to mining managers about all aspects of mining or quarrying operations;
- (e) determining staffing and material needs for the mine or quarry.

Examples of the occupations classified here:

- Mine deputy
- Mine supervisor
- Mine under-manager
- Quarry supervisor

Some related occupations classified elsewhere:

- Mine manager - 1322
- Mine safety inspector - 3117
- Miner - 8111
- Quarryer – 8111

### **3122 Manufacturing supervisors**

Manufacturing supervisors co-ordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing labourers.

- (a) coordinating and supervising the activities of process control technicians, machine operators, assemblers, and other manufacturing labourers;
- (b) organizing and planning the daily work with regard to plans, economy, staff and environment;
- (c) preparing cost estimates, records and reports;
- (d) identifying shortage of staff or components;
- (e) ensuring safety of workers;
- (f) instructing and training new staff.

Examples of the occupations classified here:

- Area coordinator, manufacturing
- Assembly supervisor
- Foreman / woman, assembly
- Finishing supervisor
- Production supervisor, manufacturing

Some related occupations classified elsewhere:

- Manufacturing manager – 1321

### **3123 Construction supervisors**

Construction supervisors, co-ordinate, supervise and schedule the activities of workers engaged in the construction and repair of buildings and structures.

Tasks include -

- (a) reading specifications to determine construction requirements and planning procedures;



- (b) organizing and coordinating the material and human resources required to complete jobs;
- (c) examining and inspecting work progress;
- (d) examining equipment and construction sites to ensure that health and safety requirements are met;
- (e) supervising construction sites and coordinating work with other construction projects;
- (f) supervising the activities of building trades workers, labourers and other construction workers.

Examples of the occupations classified here:

- Building construction supervisor
- Site manager (construction)

Some related occupations classified elsewhere:

- Construction project manager - 1323
- Project builder - 1323
- Clerk of Works – 3112

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>31</b>	<b>Sub-major Group</b>	<b>Science and engineering associate professionals</b>
<b>312</b>	<b>Minor Group</b>	<b>Mining, manufacturing and construction supervisors</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3121</b>		<b>Mining supervisors</b>
	31211	Mine supervisor
	31212	Mine under-manager
	31213	Quarry supervisor
	31215	Boss, shift: mining/Coordinator, production: mining/Coordinator, shift: mining/Deputy, mine/Examiner, open cut: mining/Manager, under: mine/Officer, mining/ technical/ Over man, mine/Overseer, mine
	31216	Supervisor( mine/ production: mining/ quarry/shift: mining/ underground: mine/Under-manager, mine)
<b>3122</b>		<b>Manufacturing supervisors</b>
	31221	Supervisor (sewing machine/fun laboratory/ packaging)
	31222	Supervisor ( pharmaceutical/perfumes /paint and varnish/ dairy products/mill/ filtration/ melt house/ pulp house/ refining/ brewing/ drying machine / winding and twisting / spinning (textile))/Supervisor film.
	31223	Supervisor, rubber (goods/ reclamation)/ plastic products/ paper products
	31224	Manufacturing supervisors (any specialism)/ Coordinator, area: manufacturing/ Supervisor, assembly(electrical products/ mechanical products/ metal products/ paperboard products/ plastic products/ rubber products/ textile products/ wood products)/Supervisor, automated assembly line/Supervisor, finishing

Unit Group	Sub-Unit Group	Description
	31225	Supervisor and general foreman (general) beverage making/Supervisor and general foreman (clothing manufacturing), Supervisor and general foreman (electrical equipment manufacturing, installation and repairing), supervisor and general foreman (electronic equipment manufacturing and repairing), Supervisor and general foreman (fabrication of products of paper, plastic etc.) (fell mongering), glass and ceramics manufacturing, manufacturing of machinery and metal products, welding, rubber (goods/reclamation)/plastic products/paper products, Manufacturing supervisors (any specialism), Other production supervisor
<b>3123</b>		<b>Construction supervisors</b>
	31231	Supervisor and general foreman (building and construction work)
	31232	Site manager (construction)
	31233	Coordinator( building: construction/ construction site/ site: building/ site: construction)/Manager, building site/Manager, site: building/Manager, site: construction/Superintendent, construction/Supervisor, building operations/ Supervisor building project

### 313 Process control technicians

Process control technicians operate and monitor switchboards, computerized control systems, multi-function process control machinery and maintain processing units in electrical power generation and distribution, wastewater, sewage treatment and waste disposal plants, chemical, petroleum and natural gas refineries in metal processing and other multiple process operations.

Tasks performed usually include:

Operating electronic or computerized control panel from a central control room to monitor and optimize processes; controlling process start-up and shut-down; operating and monitoring switchboards and related equipment; monitoring and inspecting equipment and systems to detect malfunctions; taking readings from charts, meters and gauges at established intervals; troubleshooting and take corrective action as necessary; maintaining records, logs and reports; communicating with other personnel to assess equipment operating status; cleaning and maintaining equipment; supervising plant and machine operators and other workers.

Occupations in this minor group are classified into the following unit groups:

- 3131 Power production plant operators
- 3132 Incinerator and water treatment plant operators
- 3133 Chemical processing plant controllers
- 3134 Petroleum and natural gas refining plant operators
- 3135 Metal production process controllers
- 3139 Process control technicians not elsewhere classified

#### 3131 Power production plant operators

Power production plant operators operate, monitor and maintain switchboards and related equipment in electrical control centres which control the production and distribution of electric or other power in transmission networks. The equipment operated includes reactors, turbines, generators and other

auxiliary equipment in electrical power generating stations.

Tasks include:

- (a) operating, monitoring and inspecting various types of energy generating power plants;
- (b) operating and controlling power generating systems and equipment including boilers, turbines, generators, condensers, and reactors in hydro, thermal, coal, oil, natural gas, and nuclear power plants to generate and distribute electrical power;
- (c) controlling start-up and shut-down of power plant equipment, controlling switching operations, regulating water levels and communicating with systems operators to regulate and coordinate transmission loads, frequency and line voltages;
- (d) taking readings from charts, meters and gauges at established intervals, troubleshooting and performing corrective action as necessary;
- (e) completing and maintaining station records, logs and reports, and communicating with other plant personnel to assess equipment operating status;
- (f) cleaning and maintaining equipment such as generators, boilers, turbines, pumps, and compressors in order to prevent equipment failure or deterioration.

Examples of the occupations classified here:

- Electric power plant operator
- Hydroelectric power plant operator
- Nuclear power plant operator
- Solar power plant operator
- Distribution control operator
- Generating station operator
- Power system operator

Some related occupations classified elsewhere:

- 8182 Steam engine and boiler operators

### **3132 Incinerator and water treatment plant operators**

Incinerator and water treatment plant operators monitor and operate computerized control systems and related equipment in solid and liquid waste treatment plants to regulate the treatment and disposal of sewage and wastes, and in water filtration and treatment plants to regulate the treatment and distribution of water.

Tasks include:

- (a) operating and monitoring computerized control systems, machinery and related equipment in wastewater treatment, sewage treatment, and liquid waste plants to regulate flow, treatment and disposal of sewage and wastes, and in water filtration and treatment plants to regulate the treatment and distribution of water for human consumption and for later disposal into natural water systems;
- (b) controlling the operation of multiple-hearth incinerator furnaces and related equipment to burn sludge and solid waste in waste treatment plants;
- (c) inspecting equipment and monitoring operating conditions, meters, filters, chlorinators, and gauges in Central control room to determine load requirements, to verify that flows, pressures, and temperatures are within specification, and to detect malfunctions;
- (d) monitoring and adjusting controls of auxiliary equipment, such as exhaust emissions, scrubbers, and incinerator heat recovery units;
- (a) collecting and testing water and sewage samples for chemical and bacterial content, using test equipment and colour analysis standards;
- (b) analyzing test results to make adjustments to plant equipment and systems to disinfect and

- deodorize water and other liquids;
- (g) performing security and safety checks in plant and on grounds;
- (h) completing and maintaining plant logs and reports.

Examples of the occupations classified here:

- Incinerator operator
- Pumping-station operator
- Liquid waste process operator
- Sewage plant operator
- Waste water operator
- Water treatment plant operator

### **3133 Chemical processing plant controllers**

Chemical processing plant controllers operate and monitor chemical plants and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals.

Tasks include:

- (a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units;
- (b) adjusting equipment, valves, pumps, controls and process equipment;
- (c) controlling the preparation, measuring and feeding of raw materials and processing agents such as catalysts and filtering media into plant;
- (d).controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment;
- (c) verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance;
- (f) analyzing sample products, performing tests, recording data and writing production logs.

Examples of the occupations classified here:

- Chemical-heat-treating-plant operator
- Chemical-filtering and separating equipment operator
- Chemical-still and reactor operator
- Chemical process technician

Some related occupations classified elsewhere:

- Petroleum and natural gas refinery operators - 3134
- Chemical products plant and machine operators - 8131

### **3134 Petroleum and natural gas refining plant operators**

Petroleum and natural gas refining plant operators operate and monitor plants and adjust and maintain processing units and equipment which refine, distil and treat petroleum, petroleum-based products and by-products, or natural gas.

Tasks include:

- (a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units;
- (b) adjusting equipment, valves, pumps, controls and process equipment;
- (c) controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment;
- (d) verifying equipment for malfunctions, testing well pipes for leaks and fractures and arranging for maintenance;

- (e) analyzing sample products, performing tests, recording data and writing production logs.

Examples of the occupations classified here:

- Operator, blender/petroleum and natural gas refining (ethyl)
- Operator, paraffin plant
- Operator, still/petroleum and natural gas refining
- Refinery process technician
- Petroleum process operator
- Gas plant operator

Some related occupations classified elsewhere:

- Chemical processing plant controllers - 3133
- Chemical products plant and machine operators - 8131

### **3135 Metal production process controllers**

Metal production process controllers operate and monitor multi-function process control machinery and equipment to control the processing of metal converting and refining furnaces, metal-rolling mills, metal heat-treating, or metal-extrusion plant.

Tasks include -

- (a) coordinating and monitoring the operation of a particular aspect of metal processing production through control panels, computer terminals or other control systems, usually from a central control room;
- (b) operating multi-function central process control machinery to grind, separate, filter, melt, roast, treat, refine or otherwise process metals;
- (c) observing computer printouts, video monitors and gauges to verify specified processing conditions and to make necessary adjustments;
- (d) coordinating and supervising production crew such as machine and process operators, assistants and helpers;
- (e) starting up and shutting down the production system in cases of emergency or as required by schedule;
- (f) providing and organizing training for members of production crew;
- (g) maintaining shift log of production and other data and preparing production and other reports.

Examples of the occupations classified here:

- Blast furnace operator
- Central control caster
- Metal processing control operator
- Rolling mill control operator

Some related occupations classified elsewhere:

- Ladle pourer - 8121
- Steel roller - 8121
- Metal finishing machine operator - 8122

### **3139 Process control technicians not elsewhere classified**

This unit group covers process control technicians not classified elsewhere in minor group 313 Process control technicians. For instance, the group includes those who operate multiple process control equipment in manufacturing assembly lines and paper and pulp production.

Examples of the occupations classified here:

- Automated assembly line operator
- Industrial robot controller
- Paper pulp refinery operator

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>31</b>	<b>Sub-major Group</b>	<b>Science and engineering associate professionals</b>
<b>313</b>	<b>Minor Group</b>	<b>Process control technicians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3131</b>		<b>Power production plant operators</b>
	31311	Operator, (chief), turbine (electricity generation)/( electric power plant)/ rectifier (electric current)
	31312	Operator (gas plant (electric power generation)/ natural gas plant (electric) power generating)
	31313	Operator, generator (electric power (hydroelectric)/ (electric power (steam)
	31314	Dispatcher, load (electrical power station)
	31315	Operator, switchboard (electrical power station)
	31316	Operator, geo-thermal/ solar (power plant)
	31317	Operator, nuclear power plant
	31318	Operator (wind-energy plant (electric power generating)/ tidal power plant)/ distribution control/ generating station/ generator: electric power/ hydroelectric power plant/ reactor: nuclear-power/ rectifier: electric current/ steam power plant)
<b>3132</b>		<b>Incinerator and water treatment plant operators</b>
	31321	Exhauster (assistant)/ Operator, control-panel: incinerator/Operator, control-panel: water treatment/Operator, desalting basin/Operator, filter: water/Operator, furnace: refuse disposal/Operator, liquid waste process/Operator, refrigeration system/Operator, reservoir: water/Operator, wastewater/Operator, water treatment plant
	31322	Operator (gas engine/ hydraulic station/ pumping-station (water)/ stationary engine/ desalting basin / incinerator (refuse disposal)/ sewage plant)
	31323	Operator, tube well Pump man (water)
	31324	Operator (purification plant (water)/ water purification plant/ (compressor (air)/
	31325	Furnace-operator, refuse disposal
	31326	Foreman, refrigeration (water treatment)
	31327	Machine-operator, ice production
	31328	Operator, freezer (water treatment)/ heating plant/ ventilation equipment/
	31329	Tender, water dam

Unit Group	Sub-unit Group	Description
<b>3133</b>		<b>Chemical processing plant controllers</b>
	31331	Attendant, mechanical stirrer and steam jacketed pan (chemical heat treating)/ Boiler man (chemical heat treating)/ Fireman, chemical and related processes/ Postman/ Tubman/ Vat man (chemical and related processes)
	31332	Operator (autoclave/ burner/ calciner/ drier/ cooking equipment/ roasting equipment /retort /oven/ heat-treating-plant (chemical and related processes)/ cement production plant
	31333	Kiln/ Furnace ((-operator) (cement (production/ manufacturing))/ electrode baking/ chemical and related processes)
	31334	Operator (filter/ filter-press/ centrifugal separator/ screener /separator/ sifting equipment (chemical and related processes)
	31335	Operator ((filter bag/ rotary drier/ vacuum drier/ absorption/ centrifuge/ extractor/ expeller/ purification/ filtration (chemical))/ centrifuge (paint and varnish)/ (Foreman, purification (chemical)
	31336	Strainer/ Washer (chemical and related materials)/ Treater, crude oil (oil field)/Expeller chemical and related materials
	31337	Operator ((distillation (wood)/ distiller (turpentine)/ evaporator/ reactor/converter/ vacuum pan/ distiller (continuous (chemical processes (except petroleum and natural gas))
	31338	Operator/ Distiller (still (alcohol, perfume or turpentine))/ Operator(chemical and related processing /Plant/ chemical filtering and separating /equipment/ chemical still and reactor/ control-panel: chemical plant/ cooling plant/ filter: chemical and related processes/ freezer/ heat treating plant: chemical/ heating plant/ machine: ice production/ reactor: chemical / still: batch (chemical processes except petroleum and natural gas)/ still: chemical/ still: continuous (chemical processes except petroleum and natural gas)/ synthetic-fibre production plant)Technician, chemical process/hot-cell
	31339	(Kiln-operator, charcoal production/ coke (retort kiln))/ (Operator (treater (radioactive waste)/ chemical processing plant (electric cells/radioactive materials)/ fish fertilizer/ liquefaction plant (gases))
<b>3134</b>		<b>Petroleum and natural gas refining plant operators</b>
	31341	Blender (lead/ oil (petroleum refining))/ (Burner/ Fireman (petroleum refining))/ (Pumper/ Treater (assistant), petroleum refining)

Unit Group	Sub-Unit Group	Description
<b>3135</b>	31342	Foreman (natural gas plant/tower/treating and pumping) (petroleum refining)
	31343	Gauger
	31344	Operator (blender/compounder/ pumping-station/control-panel/distiller/desulphurisation/ refinery/still-pump) (petroleum and natural gas refining/ blender: petroleum and natural gas refining/ control-panel: coal gas production/control-panel: petroleum and natural gas refinery/ evaporator: petroleum and natural gas/ gas plant/ petroleum process/ pumping-station: petroleum and natural gas/ refinery: petroleum and natural gas/ still: petroleum and natural gas refining/ still-pump: petroleum and natural gas refining/ treater: desulphurisation (petroleum and natural gas refining)/ treater: petroleum and natural gas refining/ treating equipment: crude oil)/Technician, process control: coal gas production/Technician, refinery process
	31345	Pumper (petroleum refining)/ (dispatcher/gasman) natural gas
	31346	Leak man/operator/pressman (paraffin plant)
		<b>Metal production process controllers</b>
	31351	Blast furnace operator
	31352	Central control caster
	31353	Metal processing control operator
	31354	Rolling mill control operator
	31355	Operator( control-panel: blast furnace/ control-panel: metal production control-panel: smelting/ furnace: converting (non-ferrous metal)/ furnace: converting (steel)/ furnace: melting (metal) / furnace: metal smelting (blast furnace)/ furnace: refining (non-ferrous metal))/Operator, furnace: refining (steel)/Operator, furnace: smelting (metal) /Operator, furnace: steel refining (electric-arc furnace)/Operator, furnace: steel refining (open-hearth furnace)/Operator, pot room: aluminum/Operator, pot: aluminum/Operator, pot line: aluminum/Operator, smelter
		<b>Process control technicians not elsewhere classified</b>
	31391	(Technician/ Controller) robot
	31392	(Machine-operator/Operator) assembly line (automated)
	31393	Industrial robot controller
	31394	Controller, robot: industrial/Operator( control-panel: paper-making/ control-panel: pulp production/ panel board: pulp and paper/ panel board: paper-making/ pulping control/ refinery: paper pulp/ robot: industrial/ treater: radioactive waste)/Technician, pulping

### 314 Life science technicians and related associate professionals

Life science technicians and related associate professionals perform a variety of technical tasks to support life science professionals with their research, development, management, conservation and protection work, in areas such as biology, botany, zoology, biotechnology and biochemistry, and to agriculture, fisheries and forestry.



Tasks performed usually include:

Conducting tests, experiments, laboratory analyzes, field research and surveys to collect information using accepted scientific methods; keeping records; assisting in analyzing data and preparing reports; operating and maintaining equipment.

Occupations in this minor group are classified into the following unit groups:

3141 Life science technicians (excluding medical)

3142 Agricultural technicians

3143 Forestry technicians

### **3141 Life science technicians (excluding medical)**

Life science technicians (except medical) provide technical support to life science professionals undertaking research, analysis and testing of living organisms, and development and application of products and processes resulting from research in areas such as natural resource management, environmental protection, plant and animal biology, microbiology, and cell and molecular biology.

- (a) assisting in designing, setting up and conducting experiments;
- (b) setting up, calibrating, operating and maintaining laboratory instruments and equipment;
- (c) collecting and preparing specimens and samples, chemical solutions and slides and growing cultures for use in experiments;
- (d) performing routine field and laboratory tests;
- (e) monitoring experiments to ensure adherence to correct laboratory quality control procedures and health and safety guidelines;
- (f) making observations of tests, and analyzing, calculating, recording and reporting test results using appropriate scientific methods;
- (g) preserving, classifying and cataloguing specimens and samples;
- (h) keeping detailed logs of work performed;
- (i) using computers to develop models and analyze data;
- (j) using complex and high-powered equipment to perform work;
- (k) participating in the research, development and manufacture of products and processes;
- (l) ordering and stocking laboratory supplies;
- (m) maintaining relevant databases.

Examples of the occupations classified here:

- Bacteriology technician
- Biochemistry technician
- Herbarium technician
- Pharmacology technician
- Serology technician
- Tissue culture technician
- Zoology technician

Some related occupations classified elsewhere:

- Medical laboratory technician - 3212
- Pathology laboratory technician - 3212
- Pharmaceutical technician - 3213
- Forensic science technician - 3119

### **3142 Agricultural technicians**

Agricultural technicians perform tests and experiments, and provide technical and scientific support to agricultural scientists, farmers and farm managers.

Tasks include -

- (a) preparing materials and equipment for experiments, tests and analyses;
- (b) collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or animal organs for experiments, tests and analyses;
- (c) assisting with and performing experiments, tests and analyses applying methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy;
- (d) identifying pathogenic micro-organisms and insects, parasites, fungi and weeds harmful to crops and livestock, and assisting in devising methods of control;
- (e) analyzing produce to set and maintain standards of quality;
- (f) conducting or supervising operational programs such as fish hatchery, greenhouse and livestock production programs;
- (g) analyzing samples of seeds for quality, purity and germination rating;
- (h) collecting data and estimating quantities and costs of materials and labour required for projects;
- (i) organizing maintenance and repairs of research equipment.

Examples of the occupations classified here:

- Dairy Technician
- Field Crop Technical Officer
- Herd Tester
- Horticultural Technical Officer
- Poultry Technical Officer

Some related occupations classified elsewhere:

- Artificial inseminator 3240
- Veterinary technician 3240

### **3143 Forestry technicians**

Forestry technicians perform technical and supervisory functions in support of forestry research and forest management, harvesting, resource conservation and environmental protection.

Tasks include -

- (a) conducting forest inventories, surveys and field measurements following accepted scientific and operational procedures;
- (b) assisting in and performing technical functions in the preparation of forest management and harvest plans using photogrammetric and mapping techniques and computerized information systems;
- (c) assisting in planning and supervision of construction of access routes and forest roads;
- (d) implementing, supervising and performing technical functions in silvicultural operations involving site preparation, planting, and tending of tree crops;
- (e) coordinating activities such as timber scaling, forest fire suppression, disease or insect control or pre- commercial thinning of forest stands;
- (f) supervising and performing technical functions in forest harvesting operations;
- (g) ensuring adherence to regulations and policies concerning environmental protection, resource utilization, fire safety and accident prevention;
- (h) supervising forest tree nursery operations;
- (i) providing technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys or experimental forestry and forest engineering research;
- (j) preparing forest cultivation and cutting plans.

Examples of the occupations classified here:

- Forestry technician
- Silviculture technician

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>31</b>	<b>Sub-major Group</b>	<b>Science and engineering associate professionals</b>
<b>314</b>	<b>Minor Group</b>	<b>Life science technicians and related associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3141</b>		<b>Life science technicians (except medical)</b>
	31411	Technician ( histology/ botany)
	31412	Technician (bacteriology/serology/ cytology /media preparation) /Culture man, dairy)
	31413	Technician (biophysics/ biology/ zoology/biochemistry/ genetics)
	31414	Technician( herbarium/ life science/ physiology/ plant breeding / tissue culture/ wildlife)
<b>3142</b>		<b>Agricultural technicians</b>
	31421	Technician (agronomy/crop research/ olericulture / horticulture/ floriculture/ pomology/ arboriculture/soil science)
	31422	Tester, soil/herd
	31423	(Assistant / Field assistant) agriculture
	31424	Officer, technical: field crop /Officer, technical: horticulture/Officer, technical: poultry
	31425	Technician( aquaculture / crop research/ dairy/ field crop/olericulture/ pomology/ poultry/ soil science/Tester, herd)
<b>3143</b>		<b>Forestry technicians</b>
	31431	Technician ( silviculture/ forestry)
	31432	Forest , assistant
	31433	Technician, forest survey/Technologist, forestry

### **315 Ship and aircraft controllers and technicians**

Ship and aircraft controllers and technicians, command and navigate ships and aircraft, perform technical functions to ensure safe and efficient movement and operations, and develop electrical, electromechanical, and computerized air control systems.

Tasks performed usually include:

Controlling the operation of mechanical, electrical and electronic equipment on board ship or on aircraft, commanding and navigating ships or aircraft, directing the movements of ships or aircraft and developing electrical, electromechanical, and computerized air control systems.

Occupations in this minor group are classified into the following unit groups:

- 3151 Ships' engineers
- 3152 Ships' deck officers and pilots
- 3153 Aircraft pilots and related associate professionals
- 3154 Air traffic controllers
- 3155 Air traffic safety electronics technicians

### **3151 Ships' engineers**

Ships' engineers control and participate in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship, or perform related supporting functions on shore.

Tasks performed usually include:

- (a) controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship;
- (b) ordering fuel and other engine-room department stores and maintaining record of operations;
- (c) performing technical supervision of the installation, maintenance and repair of ship's machinery and equipment to ensure compliance with specifications and regulations;
- (d) inspecting and conducting maintenance and emergency repairs to engines, machinery and auxiliary equipment;
- (e) standing engine room watch, monitoring and noting performance of engines, machinery and auxiliary equipment.

Examples of the occupations classified here:

- Ships' Engineer

Some related occupations classified elsewhere:

- Marine engineer - 2144

### **3152 Ships' deck officers and pilots**

Ships' deck officers and pilots command and navigate ships and similar vessels, and perform related functions on shore.

Tasks performed usually include:

- (a) commanding and navigating ship or similar vessel at sea or on inland waterways;
- (b) controlling and participating in deck and bridge-watch activities;
- (c) navigating vessels into and out of ports and through channels, straits and other waters where special knowledge is required;
- (d) ensuring safe loading and unloading of cargo and observance of safety regulations and procedures by crew and passengers;
- (e) performing technical supervision of maintenance and repair of ship to ensure compliance with specifications and regulations;
- (f) applying knowledge of principles and practices relating to ship's operation and navigation in order to identify and solve problems arising in the course of their work;
- (g) ordering ship's stores and recruiting crew as required and maintaining record of operations;
- (h) transmitting and receiving routine and emergency information with shore stations and other ships.

Examples of the occupations classified here:

- Captain ship/sea
- Pilot, ship
- Skipper, yacht

Some related occupations classified elsewhere:

- Sailor 8350

### **3153 Aircraft pilots and related associate professionals**

Aircraft pilots and related associate professionals control the operation of mechanical, electrical and electronic equipment, in order to navigate aircraft for transporting passengers, mail and freight and perform related pre-flight and in-flight tasks.

Tasks performed usually include:

- (a) flying and navigating aircraft in accordance with established control and operating procedures;
- (b) preparing and submitting flight plan or examining standard flight plan;
- (c) controlling the operation of mechanical, electrical and electronic equipment and ensuring that all instruments and controls work properly;
- (d) applying knowledge of principles and practices of flying in order to identify and solve problems in the course of their work;
- (e) examining maintenance records and conducting inspections to ensure that aircraft are mechanically sound, maintenance has been performed and that all equipment is operational.;
- (f) signing necessary certificates and maintaining official records of flight;
- (g) obtaining briefings and clearances before flights and maintaining contact with air traffic or flight control during flight.

Examples of the occupations classified here:

- Flight Engineer
- Flying instructor
- Navigator (flight)
- Pilot (aircraft)

### **3154 Air traffic controllers**

Air traffic controllers direct aircraft movements in airspace and on the ground, using radio, radar and lighting systems, and provide information relevant to the operation of aircraft.

Tasks performed usually include:

- (a) directing and controlling aircraft approaching and leaving airport and their movement on the
- (b) ground;
- (c) directing and controlling aircraft operating in designated airspace sector;
- (d) examining and approving flight plans;
- (e) informing flight crew and operations staff about weather conditions, operational facilities, flight
- (f) plans and air traffic;
- (g) applying knowledge of principles and practices of air traffic control in order to identify and solve problems arising in the course of their work;
- (h) initiating and organizing emergency, search and rescue services and procedures;
- (i) directing activities of all aircraft and service vehicles on or near airport runways;
- (j) maintaining radio and telephone contact with adjacent control towers, terminal control units and other control centres, and coordinating the movement of aircraft into adjoining areas.

Examples of the occupations classified here:

- Air traffic controller

### 3155 Air traffic safety electronics technicians

Air traffic safety electronics technicians perform technical tasks concerning the design, installation, management, operation, maintenance and repair of air traffic control and air navigation systems.

Tasks include:

- (a) carrying out technical duties related to the development of electronic and computerized air navigation systems and equipment, and testing prototypes;
- (b) providing technical help in the design and layout of specific interface circuitry of air navigation and aircraft detection tracking systems;
- (c) preparing and contributing to the preparation of cost estimates and technical and training specifications for air traffic control and safety equipment;
- (d) providing or assisting with the technical supervision of construction, installation and operation of ground-based air navigation equipment and its maintenance and repair to ensure that standards and specifications are met;
- (e) applying the knowledge and skills of air traffic safety engineering principles and practices in order to identify and solve problems arising in the course of their work;
- (f) developing, modifying and debugging system software;
- (g) modifying existing ground-based air navigation systems and equipment to adapt them to new air traffic control procedures, in order to improve capability, reliability and integrity, or to facilitate air traffic control procedures and airspace designation;
- (h) controlling, monitoring and certifying communication navigation and surveillance air traffic management equipment and calibrating the ground-based air navigation system to ensure maximum accuracy and safety of flight, take-off and landing operations;
- (i) providing technical training and supervising other workers.

Example of the occupations classified here:

- Air traffic safety technician
- Air traffic safety engineer

Some related occupations classified elsewhere:

- Aeronautical engineer - 2144
- Electronics engineer - 2151
- Aeromechanic - 7232
- Aircraft maintenance engineer (avionics) -7421
- Avionics technician - 7421

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>31</b>	<b>Sub-major Group</b>	<b>Science and engineering associate professionals</b>
<b>315</b>	<b>Minor Group</b>	<b>Ship and aircraft controllers and technicians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3151</b>		<b>Ships' engineers</b>
	31511	Chief engineer, ship
	31512	Engineer, ship (any rank)
	31513	Superintendent (marine/technical)
<b>3152</b>		<b>Ships' deck officers and pilots</b>
	31521	Captain((passenger) barge/ ferry boat/ fishing vessel/ river boat/ ship (inland waterways/sea)/ tugboat/ port)
	31522	Officer, ship (deck)/ (navigation)

Unit Group	Sub-Unit Group	Description
	31523	Superintendent, (marine/deck)/ Quartermaster (ship)/ Mate, tugboat/ (Master/ Skipper) yacht
	31524	Pilot, hovercraft/ ship
	31525	Master( ship: inland waterways/ ship: sea)
	31526	Mate( chief: ship/ first/ second/ ship/ third)
	31527	Navigator, ship
<b>3153</b>		<b>Aircraft pilots and related associate professionals</b>
	31531	Captain (junior), aircraft
	31532	Captain, aircraft
	31533	Pilot (aircraft/helicopter/ test)
	31534	Engineer/ Navigator( flight)
	31535	Balloonist
	31536	Instructor, flying/ Pilot, check
	31537	Astronaut/ Sprayer, crop: aerial
	31538	Pilot, seaplane
<b>3154</b>		<b>Air traffic controllers</b>
	31541	(Controller/Coordinator) air traffic
	31542	Manager, operation flight control
	31543	Officer, aerodrome
	31544	Signaler, air traffic
	31545	Operator, air-traffic control equipment
<b>3155</b>		<b>Air traffic safety electronics technicians</b>
	31551	Technician, air traffic safety
	31552	Engineer, air traffic safety

## 32 Health associate professionals

Health associate professionals perform technical and practical tasks to support diagnosis and treatment of illness, disease, injuries and impairments in humans and animals, and to support implementation of health care, treatment and referrals plans usually established by medical, veterinary, nursing and other health professionals.

Tasks performed by workers in the sub-major group usually include:

Testing and operating medical imaging equipment and administering radiation therapy; performing clinical tests on specimens of bodily fluids and tissues; preparing medications and other pharmaceutical compounds under the guidance of pharmacists; designing, fitting, servicing and repairing medical and dental devices and appliances; providing nursing and personal care and midwifery support services; using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures.

Occupations in this sub-major group are classified into the following minor groups:

- 321 Medical and pharmaceutical technicians
- 322 Nursing and midwifery associate professionals
- 323 Traditional and complementary medicine associate professionals

324 Veterinary technicians and assistants

325 Other health associate professionals

### **321 Medical and pharmaceutical technicians**

Medical and pharmaceutical technicians perform technical tasks to assist in diagnosis and treatment of illness, disease, injuries and impairments

Tasks usually include:

Testing and operating radiographic, ultrasound and other medical imaging equipment; administering radiopharmaceuticals or radiation to patients to detect or treat diseases; performing clinical tests on specimens of bodily fluids and tissues; preparing medications and other pharmaceutical compounds under the guidance of pharmacists; designing, fitting, servicing and repairing medical and dental devices and appliances.

Occupations in this minor group are classified into the following unit groups:

3211 Medical imaging and therapeutic equipment technicians

3212 Medical and pathology laboratory technicians

3213 Pharmaceutical technicians and assistants

3214 Medical and dental prosthetic technicians

#### **3211 Medical imaging and therapeutic equipment technicians**

Medical imaging and therapeutic equipment technicians test and operate radiographic, ultrasound and other medical imaging equipment to produce images of body structures for the diagnosis and treatment of injury, disease and other impairments. They may administer radiation treatments to patients under the supervision of a radiologist or other health professional.

Tasks include -

- a) operating or overseeing operation of radiologic, ultrasound and magnetic imaging equipment to produce images of the body for diagnostic purposes;
- b) explaining procedures, observing and positioning patients, and using protection devices to ensure safety and comfort during examination, scan, or treatment;
- c) position imaging or treatment equipment, monitoring video displays, and adjusting settings and controls according to technical specifications;
- d) reviewing and evaluating developed x-rays, video tape, or computer generated information to determine if images are satisfactory for diagnostic purposes and recording results of procedures;
- e) monitoring patients' conditions and reactions, reporting abnormal signs to a medical practitioner;
- f) measuring and recording radiation dosage or radiopharmaceuticals received and used for patients, following prescription issued by a medical practitioner;
- g) administering, detecting and mapping radiopharmaceuticals or radiation in patients' bodies, using radioisotope, camera or other equipment for diagnosing and treating diseases;
- h) recording and disposing of radioactive materials and storing radiopharmaceuticals, following radiation safety procedures.

Examples of the occupations classified here:

- Diagnostic medical radiographer
- Mammographer
- Medical radiation therapist
- Nuclear medicine technologist
- Sonographer



Some related occupations classified elsewhere:

- Medical physicist - 2111
- Radiologist - 2212
- Radiation Protection Expert - 2263
- Medical imaging assistant- 5329

### **3212 Medical and pathology laboratory technicians**

Medical and pathology laboratory technicians perform clinical tests on specimens of bodily fluids and tissues in order to obtain information about the health of a patient or cause of death.

Tasks include -

- (a) conducting chemical analysis of body fluids, including blood, urine, and spinal fluid, to determine presence of normal and abnormal components;
- (b) operating, calibrating and maintaining equipment used in quantitative and qualitative analysis, such as spectrophotometers, calorimeters, flame photometers, and computer-controlled analyzers;
- (c) entering data from analysis of laboratory tests and clinical results into records-keeping systems and reporting results to medical practitioners and other health professionals;
- (d) analyzing samples of biological material for chemical content or reaction;
- (e) setting up, cleaning, and maintaining laboratory equipment;
- (f) analyzing laboratory findings to check the accuracy of the results;
- (g) establishing and monitoring programs to ensure the accuracy of laboratory results and developing, standardizing, evaluating, and modifying procedures, techniques and tests used in the analysis of specimens;
- (h) obtaining specimens, cultivating, isolating and identifying microorganisms for analysis;
- (i) examining cells stained with dye to locate abnormalities;
- (j) inoculating fertilized eggs, broths, or other bacteriological media with organisms.

Examples of the occupations classified here:

- Blood-bank technician
- Cytology technician
- Medical laboratory technician
- Pathology technician

Some related occupations classified elsewhere:

- Forensic science technician - 2119
- Pathologist - 2212
- Veterinary technician - 3240
- Phlebotomist – 5329

### **3213 Pharmaceutical technicians and assistants**

Pharmaceutical technicians and assistants perform a variety of tasks associated with dispensing medicinal products under the guidance of a pharmacist or other health professional.

Tasks include:

- (a) preparing medications and other pharmaceutical compounds under the guidance of a pharmacist or other health professional;
- (b) dispensing medicines and drugs to clients and giving written and oral instructions on their use, as prescribed by medical doctors, veterinarians or other health professionals;
- (c) receiving prescriptions or refill requests from health professionals and verifying that information is complete and accurate according to medical records keeping standards;

- (d) maintaining proper storage and security conditions for drugs;
- (e) filling and labeling containers with prescribed medications;
- (f) assisting clients by answering questions, locating items or referring them to a pharmacist for medication information;
- (g) pricing and filing prescriptions that have been filled and establish and maintaining patient records, including lists of medications taken by individual patients;
- (h) ordering, labeling, and counting stock of medications, chemicals, and supplies, and entering inventory data into records-keeping systems;
- (i) cleaning and preparing equipment and containers used to prepare and dispense medicines and pharmaceutical compounds.

Examples of the occupations classified here:

- Pharmaceutical technician
- Pharmaceutical assistant

Some related occupations classified elsewhere:

- Pharmacist - 2262
- Pharmacology technician - 3141
- Pharmacy aid – 5329

### **3214 Medical and dental prosthetic technicians**

Medical and dental prosthetic technicians design, fit, service and repair medical and dental devices and appliances following prescriptions or instructions established by a health professional. They may service a wide range of support instruments to correct physical medical or dental problems such as neck braces, orthopedic splints, artificial limbs, hearing aids, arch supports, dentures, and dental crowns and bridges.

Tasks include -

- (a) examining, interviewing, and measuring patients in order to determine their appliance needs, and to identify factors that could affect appliance fit;
- (b) conferring with medical and dental practitioners in order to formulate specifications and prescriptions for devices and appliances;
- (c) interpreting prescriptions or specifications to determine the type of product or device to be fabricated, and the materials and tools that will be required;
- (d) making or receiving casts or impressions of patients' torsos, limbs, mouths or teeth for use as fabrication patterns;
- (e) designing and making orthotic and prosthetic devices using materials such as thermoplastic and thermosetting materials, metal alloys and leather, and hand and power tools;
- (f) fitting appliances and devices onto patients, testing and evaluating them, and making adjustments for proper fit, function, and comfort;
- (g). repairing, modifying, and maintaining medical and dental prosthetic and supportive devices, according to specifications;
- (h) bending, forming, and shaping fabric or material so that it conforms to prescribed contours needed to fabricate structural components;
- (i) fabricating full and partial dentures and constructing mouth guards, crowns, metal clasps, inlays, bridgework and other aids;
- (j) instructing patients in the use and care of prosthetic or orthotic devices.

Examples of the occupations classified here:

- Dental technician
- Denturist
- Orthotic technician

- Orthotist
- Prosthetic technician
- Prosthetist

Some related occupations classified elsewhere:

- Dental aide – 5329

**Note**

Occupations included in this category normally require some medical, dental and anatomical and engineering knowledge obtained through formal training. Technicians who construct and repair precision medical and surgical instruments are not included here.

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>32</b>	<b>Sub-major Group</b>	<b>Health associate professionals</b>
<b>321</b>	<b>Minor Group</b>	<b>Medical and pharmaceutical technicians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3211</b>		<b>Medical imaging and therapeutic equipment technicians</b>
	32111	Technologist (medical/chief radiologic)
	32112	Technician (audiometric/ medical (X-ray)/ electrocardiograph/ electroencephalograph)
	32113	Operator (audiometric equipment/ medical radiography equipment (X ray/scan)/ electrocardiograph equipment/ scanning equipment (optical)/ optical scanner / electroencephalograph equipment)
	32114	Radiographer
	32115	Mammo grapher
	32116	Operator, audiometric equipment/Operator, medical/Ultrasound/ <b>Ultra sonographer</b>
	32117	Sonographer
	32118	Technician, medical radiography equipment/Technician, MRI/Technician, nuclear medicine/Technician, polysomnography/Technician, radiation therapy/Technician, scanning equipment: medical/Technologist, cat scan/Technologist, computer aided tomography/Technologist, CT scan/Technologist, magnetic resonance imaging Technologist, medical imaging/Technologist, MRI/Technologist, neurodiagnostic Technologist, nuclear medicine/Technologist, polysomnography/Technologist, radiation therapy/Therapist, medical radiation/Therapist, nuclear /medicine

Unit Group	Sub-Unit Group	Description
<b>3212</b>		<b>Medical and pathology laboratory technicians</b>
	32121	Technician (medical laboratory/ genetics)
	32122	Technician (pathology/ histology/ pharmacology/ tissue/ hematology/ ecology/ blood-bank/ operation theatre/ anatomy)
	32123	Officer, blood transfusion
<b>3213</b>		<b>Pharmaceutical technicians and assistants</b>
	32131	Assistant, pharmaceutical
	32132	Compounder, pharmaceutical
	32133	Dispenser, pharmaceutical
	32134	Technician, pharmaceutical
	32135	Assistant, pharmacy: dispensing
	32136	Technician, dispensing/Technician, pharmacy
<b>3214</b>		<b>Medical and dental prosthetic technicians</b>
	32141	Dental Technician
	32142	Fitter, artificial limb/Fitter, prosthesis/Maker, dentures
	32143	Technician/Maker(artificial limb/ brace (orthopedic)/ dental prosthesis/ orthopedic appliance)
	32144	Mechanic, dental
	32145	Hearing aid Technician
	32146	Repairer (dental prosthesis/ instrument (dental)/ orthopedic appliance)
	32147	Orthotist/ Denturist/Prosthetist/Prosthetist, dental/Technician, orthotic

## **322 Nursing and midwifery associate professionals**

Nursing and midwifery associate professionals provide basic nursing and personal care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth. They generally work under the supervision of, and in support of implementation of health care, treatment and referrals plans established by, medical, nursing, midwifery and other health professionals.

Tasks performed usually include:

Providing nursing and personal care, treatment and advice to patients as per care plans as established by health professionals; assisting professional nurses, midwives and medical doctors in administering medication and treatments; cleaning wounds and applying surgical dressings; providing advice to individuals, families and communities on topics related to health, contraception, pregnancy and childbirth; assessing progress during pregnancy and childbirth, providing or assisting in delivery care, and recognizing signs and symptoms requiring referral to a health professional; providing care and support to women and newborns following childbirth.

Occupations in this minor group are classified into the following unit groups:

- 3221      Nursing associate professionals
- 3222      Midwifery associate professionals

### **3221      Nursing associate professionals**

Nursing associate professionals provide basic nursing and personal care for people in need of such care due to effects of ageing, illness, injury, or other physical or mental impairment. They generally work under the supervision of, and in support of implementation of health care, treatment and referrals plans established by, medical, nursing and other health professionals.

Tasks include:

- (a) providing nursing and personal care and treatment and health advice to patients as per care plans established by health professionals;
- (b) administering medications and other treatments to patients, monitoring patients' condition and responses to treatment, and referring patients and their families to a health professional for specialized care as needed;
- (c) cleaning wounds and applying surgical dressings;
- (d) updating information on patients' condition and treatments received in records-keeping systems;
- (e) assisting in planning and managing the care of individual patients;
- (f) assisting in giving first-aid treatment in emergencies.

Examples of the occupations classified here:

- Associate professional nurse
- Assistant nurse
- Enrolled nurse
- Practical nurse

Some related occupations classified elsewhere:

- Professional nurse - 2221
- Clinical nurse consultant
- Specialist nurse - 2221
- Professional midwife - 2222
- Associate professional midwife - 3222
- Nursing aide (hospital or clinic) - 5321
- Nursing aide (home) - 5322

#### **Note**

The distinction between professional and associate professional nurses should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that predominate in the country are not the main factor in making this distinction, as training arrangements for nurses vary widely between countries and have varied over time within countries.

### **3222      Midwifery associate professionals**

Midwifery associate professionals provide basic health care and advice before, during and after pregnancy and childbirth. They implement care, treatment and referral plans usually established by medical, midwifery and other health professionals.

Tasks include -

- (a) providing advice to women, families and communities on health, nutrition, hygiene, exercise, birth and emergency plans, breastfeeding, infant care, family planning and contraception, lifestyle and other topics related to pregnancy and childbirth;

- (b) assessing progress during pregnancy and childbirth, and recognizing signs and symptoms requiring referral to a health professional;
- (c) providing delivery care, usually only in the absence of identified potential complications, or assisting medical doctors or midwifery professionals with delivery care;
- (d) providing care and support to women and newborns following childbirth, monitoring their health status, and identifying signs and symptoms requiring referral to a health professional.

Examples of the occupations classified here:

- Assistant midwife
- Traditional midwife

Some related occupations classified elsewhere:

- Clinical nurse consultant - 2221
- Nurse, professional - 2221
- Specialist nurse - 2221
- Nursing aide (hospital) - 5321
- Professional midwife - 2222
- Midwifery attendant – 5321

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>32</b>	<b>Sub-major Group</b>	<b>Health associate professionals</b>
<b>322</b>	<b>Minor Group</b>	<b>Nursing and midwifery associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3221</b>		<b>Nursing associate professionals</b>
	32211	(Officer, principal nursing/Sister, nursing) associate professional
	32212	Nurse (associate professional), any specialism
	32213	(Dresser/ward boy) hospital
	32214	Attendant, mental hospital
	32215	Nurse, assistant/Nurse, enrolled/Nurse, practical
<b>3222</b>		<b>Midwifery associate professionals</b>
	32221	Midwife (associate professional)
	32222	Midwife (auxiliary)/Dai
	32223	Midwife, assistant/Midwife, lay/Midwife, traditional

#### **Note**

The criteria for inclusion of individuals in this category should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition, and not the qualifications held by individuals or that predominate in the country. Traditional and lay midwives, who provide basic pregnancy and birthing care and advice based primarily on experience and knowledge acquired informally through the traditions and practices of the communities where they originated, are classified here. Birth assistants, who provide emotional support and general care and advice to women and families during pregnancy and labour, are classified in minor group 532, Personal care workers in health services.

### **323      Traditional and complementary medicine associate professionals**

Traditional and complementary medicine associate professionals prevent, care for and treat human physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures.

Tasks performed usually include:

- (a) Examining patients and interviewing them and their families to determine their health status and the nature of physical or mental disorders or illnesses or other ailments;
- (b) recommending and providing care and treatment for illnesses and other ailments using traditional techniques and medicaments, such as physical manipulation and exercises, blood-letting using natural vessels, and preparations using herbs, plants, insects and animal extracts;
- (c) providing care and treatment for physical injuries such as setting and healing fractured and dislocated bones using traditional methods of physical manipulation and herbal therapies; advising individuals, families and the community on health, nutrition, hygiene, lifestyle and
- (d) other issues to maintain or improve health and well-being; referring patients to, and exchanging information with, other healthcare providers to ensure comprehensive and continuing care.

Occupations in this minor group are classified into the following unit groups:

3230      Traditional and complementary medicine associate professionals

### **3230      Traditional and complementary medicine associate professionals**

Traditional and complementary medicine associate professionals prevent, care for and treat human physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures .

Tasks include –

- (a) examining patients and interviewing them and their families to determine their health status and the nature of physical or mental disorders or illnesses or other ailments;
- (b) recommending and providing care and treatment for illnesses and other ailments using traditional techniques and medicaments, such as physical manipulation and exercises, blood-letting using natural vessels, and preparations using herbs, plants, insects and animal extracts;
- (c) providing care and treatment for physical injuries such as setting and healing fractured and dislocated bones using traditional methods of physical manipulation and herbal therapies;
- (d) advising individuals, families and the community on health, nutrition, hygiene, lifestyle and other issues to maintain or improve health and well-being;
- (e) referring patients to, and exchanging information with, other health care providers to ensure comprehensive and continuing care.

Examples of the occupations classified here:

- Bonesetter
- Herbalist
- Witch doctor

- Village healer
- Scraping and cupping therapist

Some related occupations classified elsewhere:

- Acupuncturist - 2230
- Ayurvedic practitioner - 2230
- Chinese herbal medicine practitioner - 2230
- Homeopath - 2230
- Naturopath - 2230
- Traditional midwife - 3222
- Acupressure therapist - 3255
- Hydro therapist - 3255
- Chiropractor - 3259
- Osteopath - 3259
- Faith healer – 3413

#### **Note**

Occupations in traditional and complementary medicine whose practice requires an extensive understanding of the benefits and applications of traditional and complementary therapies, developed as the result of prolonged formal study of these techniques as well as human anatomy and elements of modern medicine, are classified in Unit group 2230, Traditional and complementary medicine professionals. Those whose practice requires a less extensive understanding based on relatively short periods of formal education and training, or informally through the traditions and practices of the communities where they originated, are included in Unit group 3230, Traditional and complementary medicine associate professionals. Faith healers who treat human ailments through spiritual therapies, without using herbal therapies or other medicaments or physical treatments, are included in Unit group 5329, Personal care workers in health services not elsewhere classified. Occupations that provide therapy using traditional forms of massage and the application of pressure, such as acupressure and shiatsu therapists are classified in Unit group 3255, Physiotherapy technicians and assistants. Traditional and lay midwives, who provide basic pregnancy and birthing care and advice based primarily on experience and knowledge acquired informally through the traditions and practices of the communities where they originated, are classified in Unit group 3222, Midwifery associate professionals.

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>32</b>	<b>Sub-major Group</b>	<b>Health associate professionals</b>
<b>323</b>	<b>Minor Group</b>	<b>Traditional and complementary medicine associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3230</b>		<b>Traditional and complementary medicine associate professionals</b>
	32301	Healer (drugless treatment/herbal/village)/bonesetter
	32302	Doctor, witch
	32303	Herbalist/ Setter, bone
	32304	Technician( acupuncture/ ayurvedic/ homeopathy)
	32305	Therapist, scraping and cupping
	32306	Reflexologist



### **324 Veterinary technicians and assistants**

Veterinary technicians and assistants carry out advisory, diagnostic, preventive and curative veterinary tasks, more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and in temporary residence at veterinary facilities and assist veterinarians to perform procedures and operations.

Tasks performed usually include:

Advising communities and individuals on the treatment of animals and their diseases and injuries; conducting examinations of animals to make diagnoses or refer more difficult cases to veterinarians when needed; treating ill or injured animals, especially for common diseases and disorders; cleaning and sterilizing examination tables and instruments and preparing materials used in the examination and treatment of animals; carrying out technical tasks connected with artificial insemination of animals; getting animals ready for examination or treatment and restraining or holding them during treatment; assisting veterinarians to administer anesthetics and oxygen during treatment; placing animals in cages for recovery from operations and monitoring their condition.

Occupations in this minor group are classified into the following unit groups:

3240 Veterinary technicians and assistants

### **3240 Veterinary technicians and assistants**

Veterinary technicians and assistants carry out advisory, diagnostic, preventive and curative veterinary tasks, more limited in scope and complexity than those carried out by, and with the guidance of, veterinarians. They care for animals under treatment and in temporary residence at veterinary facilities, perform routine procedures and assist veterinarians to perform procedures and operations.

Tasks include -

- (a) advising communities and individuals on the treatment of animals and their diseases and injuries;
- (b) conducting examinations of animals to make diagnoses or refer more difficult cases to veterinarians when needed;
- (c) treating ill or injured animals, especially for common diseases and disorders;
- (d) cleaning and sterilizing examination tables and instruments and preparing materials used in the examination and treatment of animals;
- (e) carrying out technical tasks connected with artificial insemination of animals;
- (f) getting animals ready for examination or treatment and restraining or holding them during treatment;
- (g) assisting veterinarians to administer anesthetics and oxygen during treatment;
- (h) placing animals in cages for recovery from operations and monitoring their condition;
- (i) producing radiographs, collecting samples, and performing other laboratory tests to assist in diagnosis of animal health problems;
- (j) performing routine animal dental procedures and assisting veterinarians with animal dentistry.

Examples of the occupations classified here:

- Artificial inseminator
- Veterinary assistant
- Veterinary nurse
- Veterinary vaccinator

Some related occupations classified elsewhere:

- Veterinarian - 2250

-Animal attendant - 5164

-Veterinary aide – 5164

**3 Major Group Technicians and associate professionals**

**32 Sub-major Group Health associate professionals**

**324 Minor Group Veterinary technicians and assistants**

Unit Group	Sub-Unit Group	Description
<b>3240</b>		<b>Veterinary technicians and assistants</b>
	32401	Assistant (livestock/veterinary)
	32402	Assistant veterinary (research/ artificial insemination)
	32403	Vaccinator (veterinary/poultry)
	32404	(compounder/dresser) veterinary
	32405	(inseminator/technician) artificial insemination
	32406	Nurse, veterinary
	32407	Technician, veterinary

### **325 Other health associate professionals**

Other health associate professionals perform technical tasks and provide support services in dentistry, medical records administration, community health, the correction of reduced visual acuity, physiotherapy, environmental health, emergency medical treatment and other activities to support and promote human health.

Tasks usually include:

Providing basic care services for the prevention and treatment of diseases and disorders of the teeth and mouth; advising communities and individuals on hygiene, diet and other preventive measures to reduce potential risks to health; compiling and maintaining patients' medical records to document condition and treatment and to provide data for research, billing, cost control and care improvement; assisting families to develop the necessary skills and resources to improve their health status; providing advice and education on sanitation and hygiene to limit the spread of infectious diseases; fitting and dispensing optical lenses; investigate the implementation of rules and regulations relating to environmental and occupational factors that may potentially affect human health; massaging the soft tissues of the body; showing patients to examination rooms and preparing them for examination; attending accidents, emergencies and requests for medical assistance.

Occupations in this minor group are classified into the following unit groups:

- 3251 Dental assistants and therapists
- 3252 Medical records and health information technicians
- 3253 Community health workers
- 3254 Dispensing opticians
- 3255 Physiotherapy technicians and assistants
- 3256 Medical assistants
- 3257 Environmental and occupational health inspectors and associates
- 3258 Ambulance workers
- 3259 Health associate professionals not elsewhere classified

### **3251 Dental assistants and therapists**

Dental assistants and therapists provide basic dental care services for the prevention and treatment of diseases and disorders of the teeth and mouth, as per care plans and procedures established by a dentist or other oral health professional.

Tasks include:

- (a) advising communities and individuals on dental hygiene, diet and other preventive measures to reduce potential risks to oral health;
- (b) conducting visual and physical examinations of patients' mouths, teeth and related structures to assess oral health status;
- (c) identifying cases of patients with poor oral health or oral disease requiring referral to a dentist or other health professional
- (d) assisting dentists during complex dental procedures
- (e) providing fluoride treatments, cleaning and removing deposits from teeth, preparing cavities and placing fillings, administering local anesthesia, and performing other types of basic or routine clinical dental procedures;
- (f) preparing, cleaning and sterilizing dental instruments, equipment and materials used in the examination and treatment of patients;
- (g) getting patients ready for examination or treatment including explaining procedures and correct positioning;
- (h) taking impressions of the mouth and dental radiographs to support diagnosis and fitting of dental prosthetics.

Examples of the occupations classified here:

- Dental assistant
- Dental hygienist
- Dental therapist

Some related occupations classified elsewhere:

- Dentist - 2261
- Dental mechanic- 3214
- Dental prosthetist - 3214
- Dental technician - 3214
- Dental aid - 5329

### **3252 Medical records and health information technicians**

Medical records and health information technicians develop, maintain and implement health records processing, storage and retrieval systems in medical facilities and other health care settings to meet the legal professional, ethical and administrative records-keeping requirements of health services delivery.

- (a) planning, developing, maintaining and operating a variety of health record indexes and storage and retrieval systems to collect, classify, store and analyze information;
- (b) transcribing, compiling and processing patient medical records, admission and discharge documents, and other medical reports into records-keeping systems to provide data for patient monitoring and referral, epidemiological monitoring, research, billing, cost control and care improvement;
- (c) reviewing records for completeness, accuracy and compliance with regulations;
- (d) translating narrative descriptions and numeric information from medical records and other documents on health services delivery into codes associated with standard classification systems;
- (e) protecting the security of medical records to ensure that confidentiality is maintained and releasing information to authorized persons and agencies in accordance with regulations;

- (f) supervising clerical and administrative workers involved in the maintenance of medical records.

Examples of the occupations classified here:

- Clinical coder
- Disease registry technician
- Health information clerk
- Medical records analyst
- Medical records clerk
- Medical records technician

Some related occupations classified elsewhere:

- Data entry clerk - 4132
- Filing clerk - 4132
- Medical secretary - 3344

**Note**

Occupations included in this unit group normally require knowledge of medical terminology, legal aspects of health information, health data standards, and computer- or paper-based data management as obtained through formal education and/or on-the-job training.

### **3253 Community health workers**

Community health workers provide health education, referral and follow up, case management, and basic preventive health care and home visiting services to specific communities. They provide support and assistance to individuals and families in navigating the health and social services system.

- (a) providing information to families and communities on a range of health issues including nutrition, hygiene, infant and child care, immunizations, family planning, risk factors and prevention of common infectious diseases, poisoning prevention, first aid for treatment of simple and common ailments, substance abuse, domestic violence, and other topics;
- (b) visiting families in their homes to provide information on the health, social and other services available and support them in gaining access to these services;
- (c) visiting families who do not usually access medical establishments to monitor on a regular basis certain conditions, such as progress with pregnancy, child growth and development, and environmental sanitation ;
- (d) distributing to households medical supplies for the prevention and treatment of endemic diseases such as malaria, pneumonia and diarrhea diseases, and instructing family and community members in the use of these products;
- (e) conducting outreach efforts to groups who do not usually access medical establishments with information and basic medical supplies for prevention and management of certain health conditions for which they are most at risk, such as HIV/AIDS and other communicable diseases;
- (f) collecting data from households and communities who do not usually access medical establishments for purposes of patient monitoring and referral and reporting to meet health regulations.

Examples of the occupations classified here:

- Community health aide
- Community health promoter
- Community health worker
- Village health worker

Some related occupations classified elsewhere:

- Village healer - 3230
- Traditional midwife - 3222
- Home care aide – 5322

**Note**

Occupations included in this category normally require formal or informal training and supervision recognized by the health and social services authorities. Providers of routine personal care, self-defined health care providers and traditional medicine practitioners are not included here.

### **3254 Dispensing opticians**

Dispensing opticians design, fit and dispense optical lenses based on a prescription from an ophthalmologist or optometrist for the correction of reduced visual acuity. They service corrective eyeglasses, contact lenses, low-vision aids and other optical devices.

Tasks include -

- (a) examining and taking facial and eye measurements of clients for fitting of eyeglasses and other optical devices;
- (b) providing advice to clients with selection and maintenance of eyeglasses and frames, types of contact lenses and other optical devices for performance, safety, comfort and lifestyle;
- (c) interpreting optical prescriptions and preparing work order for optical laboratory for grinding and mounting of lenses in frames, preparation of contact lenses and other required work;
- (d) verifying exactness of finished optical appliances and devices to the original prescription and fit of clients.

Examples of the occupations classified here:

- Contact lens optician
- Dispensing optician

Some related occupations classified elsewhere:

- Ophthalmologist - 2212
- Ophthalmic optician - 2267
- Optometrist - 2267
- Orthoptist - 2267

### **3255 Physiotherapy technicians and assistants**

Physiotherapy technicians and assistants provide physical therapeutic treatments to patients in circumstances where functional movement is threatened by injury, disease or impairment. Therapies are usually provided as per rehabilitative plans established by a physiotherapist or other health professional.

Tasks include -

- (a) administering manual treatments such as massage therapy or pressure point therapy;
- (b) administering electrical modality treatments, ultrasound, and other physical therapies using specialized techniques and equipment, including infra-red lamps, wet compresses, and herbal and mineral therapies;
- (c) instructing, motivating, safeguarding and assisting patients as they practice physical exercises, relaxation techniques and functional activities;
- (d) conferring with physiotherapists or other health care providers to evaluate patient information for planning, modifying, and coordinating treatment;
- (e) monitoring and recording patients' progress during treatments, including measuring their

- range-of-joint motion and vital signs;
- (f) fitting patients for orthopedic braces, prostheses, and other physical supportive devices such as crutches, and instructing patients in the use of such devices.

Examples of the occupations classified here:

- Acupressure therapist
- Electrotherapist
- Hydro therapist
- Massage therapist
- Physiotherapy technician
- Physical rehabilitation technician
- Shiatsu therapist

Some related occupations classified elsewhere:

- Physiotherapist - 2264
- Podiatrist - 2269
- Occupational therapist - 2269
- Chiropractor - 3259

### **3256 Medical assistants**

Medical assistants perform basic clinical and administrative tasks to support patient care under the direct supervision of a medical practitioner or other health professional.

Tasks include -

- (a) interviewing patients and their families to obtain information on their health status and medical history;
- (b) assisting medical doctors and other health professionals to examine and treat patients, including measuring and recording vital signs, administering medications, and performing routine clinical procedures such as giving injections and removing sutures
- (c) getting patients ready for examination and treatment, including explaining procedures and showing them to examination rooms;
- (d) preparing and handling medical instruments and supplies, including sterilizing instruments and disposing of contaminated supplies in accordance with safety procedures;
- (e) collecting blood, tissue or other specimens, and preparing them for laboratory testing;
- (f) providing information to patients and families on health care topics including medications prescribed by a medical doctor or other health professional;
- (g) providing prescription and drug refill information to pharmacies;
- (h) maintaining cleanliness of patient waiting and examination rooms;
- (i) recording information on patients' medical history, diagnostic testing and treatment procedures and results, and other information in medical records-keeping systems;
- (j) scheduling appointments with patients, and preparing documentation required for billing, reporting and Insurance purposes.

Examples of the occupations classified here:

- Clinical assistant
- Medical assistant
- Ophthalmic assistant

Some related occupations classified elsewhere:

- Clinical officer (paramedical) - 2240
- Medical prosthetic technician - 3214
- Dental assistant - 3251

- Physiotherapy assistant - 3255
- Medical secretary - 3344
- Medical imaging assistant - 5329

**Note**

Occupations included in this category normally require formal training in health services provision. Clinical care providers with advanced training and skills to provide independent medical diagnostic and treatment services are classified in unit group 2240, Paramedical practitioners.

### **3257 Environmental and occupational health inspectors and associates**

Environmental and occupational health inspectors and associates investigate the implementation of rules and regulations relating to environmental factors that may affect human health, safety in the workplace, and safety of processes for the production of goods and services. They may implement and evaluate programs to restore or improve safety and sanitary conditions under the supervision of a health professional.

**Tasks include -**

- (a) advising employers' and workers' representatives on the implementation of government and other rules and regulations concerning occupational safety and the working environment;
- (b) inspecting places of work to ensure that the working environment, machinery and equipment conform to government and other rules, regulations and standards related to sanitation and/or occupational and environmental health and safety;
- (c) giving advice on environmental sanitary problems and techniques;
- (d) inspecting places of work and, by interviews, observations and other means, obtaining information about work practices and accidents to determine compliance with safety rules and regulations;
- (e) inspecting areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards;
- (f) advising enterprises and the general public on the implementation of government and other rules and regulations concerning hygiene, sanitation, purity and grading of primary products, food, drugs, cosmetics and similar goods;
- (g) inspecting establishments to ensure that they conform to government and other rules and regulations concerning emission of pollutants and disposal of dangerous wastes
- (h) initiating action to maintain or improve hygiene and prevent pollution of water, air, food or soil;
- (i) promoting preventive and corrective measures such as control of disease carrying organisms and of harmful substances in the air, hygienic food handling, proper disposal of waste and cleaning of public places;
- (j) estimating quantities and costs of materials and labour required for health, safety and sanitation remediation projects;

**Examples of the occupations classified here:**

- Food sanitation and safety inspector
- Health inspector
- Occupational health and safety inspector
- Sanitarian
- Sanitary inspector

**Some related occupations classified elsewhere:**

- Environmental health officer - 2263
- Occupational health and safety adviser - 2263
- Occupational hygienist - 2263
- Radiation protection expert – 2263



### **3258 Ambulance workers**

Ambulance workers provide emergency health care to patients who are injured, sick, infirm, or otherwise physically or mentally impaired prior to and during transport to medical facilities.

Tasks include -

- (a) assessing health status of persons involved in accidents, natural disasters and other emergency situations, and determining needs for immediate and specialized medical assistance;
- (b) performing medical procedures and administering drugs and other therapies according to protocol for emergency medical treatment, including resuscitating and defibrillating patients and operating life- support equipment;
- (c) monitoring changes in health status of patients during transport to and from medical, rehabilitation and other health care facilities;
- (d) providing information and training to community groups and essential service workers in first aid for initial care of an illness or injury;
- (e) attending and/or patrolling large-scale public gatherings and other events where health emergencies are more likely to occur;
- (f) recording information on patients' conditions and treatments provided in medical records-keeping systems.

Examples of the occupations classified here:

- Ambulance officer
- Ambulance paramedic
- Emergency medical technician
- Emergency paramedic

Some related occupations classified elsewhere:

- Paramedical practitioner - 2240
- Ambulance driver - 8322

**Note**

Occupations included in this unit group normally require formal training in emergency medical treatment, patient transport, ambulance principles and practice, or a related field. Ambulance drivers who do not provide health care are classified in Unit group 8322 Car, taxi and van drivers.

### **3259 Health associate professionals not elsewhere classified**

This unit group covers health associate professionals not classified elsewhere in Sub-major group 32, Health associate professionals. For instance the group includes occupations such as chiropractor, osteopath and other health associate professionals.

In such cases tasks would include:

- (a) interviewing and examining patients to obtain information on their health status and the nature and extent of injury, illness or other physical or mental health problem;
- (b) administering therapeutic care and treatment to patients, including the manual and physical chiropractic and osteopathic techniques;
- (c) monitoring patients' progress through treatment plans, and identifying signs and symptoms requiring referral to a medical doctor or other health professional;
- (d) recording information on patients' health status and responses to treatment in medical records-keeping systems;



- (e) sharing information with other health care providers when required to ensure continuing and comprehensive care.

Examples of the occupations classified here:

- Chiropractor
- Osteopath

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>32</b>	<b>Sub-major Group</b>	<b>Health associate professionals</b>
<b>325</b>	<b>Minor Group</b>	<b>Other health associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3251</b>		<b>Dental assistants and therapists</b>
	32511	Assistant/ auxiliary/ technician/ hygienist (dental/ oral)
	32512	Prophylactician/dentist (unregistered)
	32513	Assistant, dental: school service
	32514	Hygienist, dental/Hygienist, oral
	32515	Therapist, dental
<b>3252</b>		<b>Medical records and health information technicians</b>
	32521	Clinical coder
	32522	Medical record clerk
	32523	Health information clerk
	32524	Analyst, medical records/Clerk, coding: clinical
	32525	Manager, information: health/Manager, records: /health/Supervisor, medical records unit
	32526	Technician, disease registry/Technician, health information/Technician, medical records
<b>3253</b>		<b>Community health workers</b>
	32531	Community health aide
	32532	Community health promoter
	32533	Community health worker
	32534	Village health worker/ Lady health visitor (L.H.V)/L.H.W
	32535	Assistant, medical: family planning
	32536	Promoter, community health
<b>3254</b>		<b>Dispensing opticians</b>
	32541	Optician, dispensing/ Dispenser, optical
	32542	Optician, contact lens
<b>3255</b>		<b>Physiotherapy technicians and assistants</b>
	32551	Electrotherapist
	32552	Hydro therapist
	32553	Massage therapist
	32554	Aide, therapist: physiotherapy/Aide, therapy: physiotherapy

Unit Group	Sub-Unit Group	Description
	32555	Assistant, allied health: physiotherapy/Assistant, hydrotherapy/Assistant, physiotherapy Assistant, technical: physiotherapy/Assistant, therapy: physiotherapy
	32556	Masseur/Masseuse/Technician, hydrotherapy/Technician, physical rehabilitation/Technician, physiotherapy/Therapist, acupuncture
	32557	Therapist, hydrotherapy/Therapist, shiatsu
<b>3256</b>		<b>Medical assistants</b>
	32561	Assistant (health/medical/occupational therapy)
	32562	Vaccinator/Microscopist
	32563	Superintendent (vaccination/ sanitary)
	32564	Assistant, clinical: helping doctor/Assistant, doctor's/Assistant, medical: helping
<b>3257</b>		<b>Environmental and occupational health inspectors and associates</b>
	32571	Inspector (sanitary/ public health)
	32572	Sanitarian
	32573	Sanitary patrol
	32574	Inspector (anti malaria/ drug/ safety and health (child care) <b>complaint control</b>
	32575	Inspector, pollution/Inspector, product safety/Inspector, safety and health (consumer (protection)/ establishments/ factories/ industrial (waste-recessing)/ labour/ pollution/ shops)/Inspector working conditions/Meat
<b>3258</b>		<b>Ambulance workers</b>
	32581	Attendant ambulance man/Ambulance woman/Man, ambulance/ Officer, ambulance/Paramedic, ambulance/Technician, emergency medical/ Woman, ambulance/Worker, ambulance
	32582	Emergency medical technician
	32583	Emergency paramedic
<b>3259</b>		<b>Health associate professionals not elsewhere classified</b>
	32591	Fitter (artificial limb)
	32592	Supervisor (orthopedic workshop)
	32594	Chiropractor/ Osteopath, lay
	32595	Malshiya/ masseur
	32596	Technician (orthopedic/ prosthetic)
	32597	Counselor( AIDS/ family planning/ HIV)
	32598	Technician, anesthesia /Technician, respiratory therapy / Assistant, speech therapy

### 33 Business and administration associate professionals

Business and administration associate professionals perform mostly technical tasks connected with the practical application of knowledge relating to financial accounting and transaction matters, mathematical calculations, human resource development, selling and buying financial instruments, specialized secretarial tasks, and enforcing or applying relevant government rules. Also included are workers who provide business services such as customs clearance, conference planning, job placements, buying and selling real estate or bulk commodities, and serving as agents for performers such as athletes and artists.

Tasks performed by workers in this sub-major group usually include:

Recording and transmitting buy and sell orders for securities, stocks, bonds or other financial instruments and for foreign exchange for future or immediate delivery; submitting credit and loan applications to management with recommendations for approval or rejection; approving or rejecting applications within authorized limits ensuring that credit standards of the institution are respected; maintaining complete records of all financial transactions of an undertaking according to general bookkeeping principles, with guidance from Accountants; assisting in planning and performing mathematical, statistical, actuarial, accounting and related calculations; selling and buying financial instruments.

Occupations in this sub-major group are classified into the following minor groups:

- 331 Financial and Mathematical associate professionals
- 332 Sales and purchasing agents and brokers
- 333 Business services agents
- 334 Administrative and specialized secretaries
- 335 Regulatory government associate professionals

### **331 Financial and mathematical associate professionals**

Financial and mathematical associate professionals place a value on various items and property, maintain records of financial transactions, analyze loan application information and render a decision, buy and sell financial instruments, and perform mathematical and related calculations. Recording and transmitting buy and sell orders for securities, stocks, bonds or other financial instruments and for foreign exchange for future or immediate delivery; submitting credit and loan applications to management with recommendations for approval or rejection; or approve or reject applications within authorized limits ensuring that credit standards of the institution are respected; maintaining complete records of all financial transactions of an undertaking according to general bookkeeping principles, with guidance from Accountants; assisting in planning and performing mathematical, statistical, actuarial, accounting and related calculations.

Occupations in this minor group are classified into the following unit groups:

- 3311 Securities and finance dealers and brokers
- 3312 Credit and loans officers
- 3313 Accounting associate professionals
- 3314 Statistical, mathematical and related associate professionals
- 3315 Values and loss assessors

#### **3311 Securities and finance dealers and brokers**

Securities and finance dealers and brokers buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange, on spot, or on futures markets, on behalf of their own company or for customers on a commission basis. They recommend transactions to clients or senior management.

Tasks include -

- (a) obtaining information about the financial circumstances of customers and companies in which investments may be made;
- (b) analyzing market trends for securities, bonds, stocks and other financial instruments, including foreign exchange;
- (c) informing prospective customers about market conditions and prospects;
- (d) advising on and participating in the negotiation of terms for, and organization of, loans and placement of stocks and bonds in the financial market to raise capital for customers;
- (e) recording and transmitting buy and sell orders for securities, stocks, bonds or other

financial instruments and for foreign exchange for future or immediate delivery.

Examples of the occupations classified here:

- Foreign exchange broker
- Securities broker
- Stocks and shares broker
- Foreign exchange dealer

Some related occupations classified elsewhere:

- Bond analyst - 2413
- Commodities broker - 3324
- Commodity futures dealer - 3324
- Securities clerk - 4312

### **3312 Credit and loans officers**

Credit and loan officers analyze and evaluate financial information on applications for credit and loans and determine approval or disapproval of the client for the credit or loan or recommend to management approval or disapproval.

Tasks include:

- (a) interviewing applicants for personal, mortgage, student and business loans;
- (b) researching and evaluating loan applicant's financial status, references, credit and ability to repay the loan
- (c) submitting credit and loan applications to management with recommendations for approval or rejection
- (d) approving or rejecting loan applications within authorized limits ensuring that credit standards of the institution are respected;
- (e) keeping records of payments, and preparing routine letters requesting payment for overdue accounts and forwarding these for legal action;
- (f) completing credit and loan documentation.

Examples of the occupations classified here:

- Loan officer
- Mortgage officer

Some related occupations classified elsewhere:

- Financial institution branch manager – 1346

### **3313 Accounting associate professionals**

Accounting associate professionals maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.

Tasks include -

- (a) maintaining complete records of all financial transactions of an undertaking according to general bookkeeping principles, with guidance from Accountants;
- (b) verifying accuracy of documents and records relating to payments, receipts and other financial transactions;
- (c) preparing financial statements and reports for specified periods;
- (d) applying knowledge of bookkeeping principles and practices in order to identify and solve problems arising in the course of their work;
- (e) using standard computer software packages to perform accounting and related calculations;

- (f) supervising the work of accounts and bookkeeping clerks.

Example of the occupations classified here:

- Bookkeeper

Some related occupations classified elsewhere:

- Accountant - 2411
- Actuarial assistant - 3314
- Bookkeeping clerk- 4311

### **3314 Statistical, mathematical and related associate professionals**

Statistical, mathematical and actuarial associate professionals assist in planning the collection, processing and presentation of statistical, mathematical or actuarial data and in carrying out these operations, usually working under the guidance of statisticians, mathematicians and actuaries.

Tasks include -

- (a) assisting in planning and performing statistical, mathematical, actuarial, and related calculations;
- (b) preparing detailed estimates of quantities and costs of materials and labour required for statistical census and survey operations;
- (c) performing technical tasks connected with establishing, maintaining and using registers and sampling frames for census and survey operations;
- (d) performing technical tasks connected with data collection and quality control operations in censuses and surveys;
- (e) using standard computer software packages to perform mathematical, actuarial statistical accounting and related calculations;
- (f) preparing statistical, mathematical, actuarial, accounting and other results for presentation in graphical or tabular form;
- (g) applying knowledge of statistical, mathematical, actuarial, accounting and related principles and practices in order to identify and solve problems arising in the course of their work;
- (h) supervising the work of statistical clerks.

Examples of the occupations classified here:

- Actuarial assistant
- Mathematical assistant
- Statistical assistant

Some related occupations classified elsewhere:

- Actuary - 2120
- Mathematician - 2120
- Statistician - 2120
- Accounting assistant - 3313
- Statistical Clerk - 4312

### **3315 Values and loss assessors**

Values and loss assessor value property and various goods and assess losses covered by insurance policies.

Tasks include -

- (a) determining the quality or value of raw materials, real estate, industrial equipment, personal and household effects, works of art, gems and other objects;
- (b) assessing the extent of damage or loss and liabilities of insurance companies and

- underwriters for  
losses covered by insurance policies;
- (c) obtaining records of sales and value of similar items or property;
  - (d) inspecting items or property to evaluate condition, size, and construction;
  - (e) preparing reports of value, outlining the estimation factors and methods used.

Examples of the occupations classified here:

- Appraiser
- Real estate appraiser
- Claims assessor
- Insurance assessor
- Claims inspector
- Value

Some related occupations classified elsewhere:

- Auctioneer – 3339

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>33</b>	<b>Sub-major Group</b>	<b>Business and administration associate professionals</b>
<b>331</b>	<b>Minor Group</b>	<b>Financial and mathematical associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3311</b>		<b>Securities and finance dealers and brokers</b>
	33111	Broker (foreign exchange/ investment/ securities/ stocks and shares/ finance/futures: financial/ lease/ mortgage)
	33112	Jobber, stock
	33113	Salesperson (bond/ securities)
	33114	Dealer, bond/Dealer, foreign exchange/Dealer, futures: financial/Dealer, investment/Dealer, securities
	33115	Trader, bond/Trader, financial/Trader, foreign exchange/Trader, futures: financial Trader, stock/Underwriter, investments
	33116	Trader, derivatives/Trader, securities
<b>3312</b>		<b>Credit and loan officers</b>
	33121	Loan officer
	33122	Mortgage officer
	33123	Credit officer
	33124	Analyst( credit: assessing credit or loans/ financial: assessing credit worthiness of clients/ loans/risk: assessing credit worthiness of clients)
	33125	Assessor, credit/Assessor, loans/Clerk, finance: approving or assessing credit or loans
	33126	Controller, credit: assessing credit worthiness of clients/Officer( acceptance: financial institution/ bank lending/ bank: loans or lending/ credit: bank, building society or credit union/ finance: approving, assessing or processing loans/ home loans/ lending services: bank, building society or credit union/ securities: loans or lending/ settlements: loans or financial settlements)

Unit Group	Sub-Unit Group	Description
3313	33127	Processor, loans/Supervisor, credit: assessing credit or finance/Underwriter, loans
	33128	Writer, loan/Writer, mortgage
		<b>Accounting associate professionals</b>
	33131	Bookkeeper (ledger/ accounts payable (or receivable))
3314	33132	Assistant, accounting
	33133	Auditor ,night hotel
		<b>Statistical, mathematical and associate professionals</b>
	33141	Technician (mathematical/ statistical)
3315	33142	Assistant (statistical/ mathematical/ actuarial)
	33143	Weight analyst (aircraft manufacturing)
		<b>Values and loss assessors</b>
	33151	Adjuster/ Assessor/ Inspector, claims (insurance)
	33152	Appraiser/ Value
	33153	Appraiser, real estate/Examiner, claims/Representative, insurance: assessor Representative, insurance: claims

### 332 Sales and purchasing agents and brokers

Sales and purchasing agents and brokers represent companies, governments and other organizations to buy and sell commodities, goods, insurance, shipping and other services to industrial, professional, commercial or other establishments, or act as independent agents to bring together buyers and sellers of commodities and services.

Tasks performed usually include:

Obtaining information about, monitoring and analyzing market trends and conditions and employer's and competitors goods and services; obtaining information about clients' needs and identifying suitable products and services; explaining and demonstrating products and services to clients; negotiating prices, contracts, terms, conditions and shipping arrangements for purchase or sale of goods, services or commodities.

Occupations in this minor group are classified into the following unit groups:

- 3321 Insurance representatives
- 3322 Commercial sales representatives
- 3323 Buyers
- 3324 Trade brokers

#### Notes

Sales managers are classified in minor group 122, Sales marketing and development managers. Technical, medical and ICT sales professionals are classified in Minor Group 243, Sales, marketing and public relations professionals. Securities and finance dealers are classified in minor group 331, Financial and mathematical associate professionals.

### **3321 Insurance representatives**

Insurance representatives advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and established clients.

Tasks include -

- (a) obtaining information about customers' circumstances necessary to determine appropriate type of insurance and conditions;
- (b) negotiating with customers to determine type and degree of risk for which insurance is required;
- (c) explaining details of insurance and conditions, risk coverage premiums and benefits to customers;
- (d) assisting clients to determine the type and level of coverage required, calculating premiums and establishing method of payment;
- (e) negotiating and placing reinsurance contracts;
- (f) advising on, negotiating terms for and placing insurance contracts for large or special types of projects, installations or risks.

Examples of the occupations classified here:

- Insurance agent
- Insurance broker
- Insurance underwriter

Some related occupations classified elsewhere:

- Insurance agency manager - 1346
- Insurance assessor- 3315
- Securities dealer - 3311
- Insurance clerk – 4312

### **3322 Commercial sales representatives**

Commercial sales representatives represent companies to sell various goods and services to businesses and other organizations and provide product specific information as required.

Tasks include -

- (a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
- (b) selling equipment, supplies and related services to business establishments or individuals;
- (c) obtaining and updating knowledge of market conditions and of employer's and competitors' goods and services;
- (d) providing prospective customers with information about the characteristics and functions of the products and equipment for sale, and demonstrating its use or qualities;
- (e) quoting prices and credit terms, recording orders and arranging deliveries;
- (f) reporting customers' reactions and requirements to suppliers and manufacturers;
- (g) following up clients to ensure satisfaction with products purchased.

Examples of the occupations classified here:

- After-sales service adviser
- Canvasser
- Commercial traveler

Some related occupations classified elsewhere:

- Sales manager - 1221
- Medical sales representative - 2433
- Technical sales representative - 2433
- Information and communications technology sales professional - 2434



### **3323 Buyers**

Buyers buy goods and services for use or resale on behalf of industrial, commercial, government or other establishments and organizations.

Tasks include –

- (a) determining or negotiating contract terms and conditions, awarding supplier contracts or recommending contract awards for the purchase of equipment, raw materials products, services and the purchasing of merchandise for resale;
- (b) obtaining information about requirements and stock and developing specifications for quantity and quality to be purchased, costs, delivery dates and other contract conditions;
- (c) purchasing general and specialized equipment, materials or business services for use or for further processing by their establishment;
- (d) inviting tenders, consulting with suppliers and reviewing quotations;
- (e) purchasing merchandise for resale by retail or wholesale establishments;
- (f) studying market reports, trade periodicals and sales promotion materials and visiting trade shows, showrooms, factories and product design events;
- (g) selecting the merchandise or products that best fit the establishment's requirements;
- (h) interviewing suppliers and negotiating prices, discounts, credit terms and transportation arrangements;
- (i) overseeing distribution of merchandise to outlets and maintaining adequate stock levels;
- (j) establishing delivery schedules, monitoring progress and contacting clients and suppliers to resolve problems.

Examples of the occupations classified here:

- Buyer
- Purchasing agent
- Procurement officer
- Supply officer
- Purchasing merchandiser

Some related occupations classified elsewhere:

Commodities broker – 3324

### **3324 Trade brokers**

Trade brokers buy and sell commodities and shipping services, usually in bulk, on behalf of their own company or for customers on a commission basis.

Tasks include -

- (a) establishing contact between buyers and sellers of commodities;
- (b) discussing buying or selling requirements of clients and giving advice accordingly;
- (c) buying and selling cargo space on ships;
- (d) negotiating purchase or sale of commodities and commodity futures;
- (e) finding cargo and/or storage space for commodities and negotiating freight, shipping and storage charges;
- (f) monitoring and analyzing market trends and other factors affecting the supply and demand for commodities and shipping services.

Examples of the occupations classified here:

- Commodities broker
- Commodity futures dealer
- Shipping broker

Some related occupations classified elsewhere:

- Finance broker - 3311
- Finance dealer - 3311
- Securities broker - 3311
- Securities dealer - 3311
- Insurance dealer – 3321

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>33</b>	<b>Sub-major Group</b>	<b>Business and administration associate professionals</b>
<b>332</b>	<b>Minor Group</b>	<b>Sales and purchasing agents and brokers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3321</b>		<b>Insurance representatives</b>
	33211	Agent (group insurance/insurance)
	33212	Broker/ Underwriter (insurance)
	33213	Dealer, insurance
	33214	Representative, insurance: sales/Representative, sales: insurance
<b>3322</b>		<b>Commercial sales representatives</b>
	33221	Agent/ Representative, ( sales/ Traveler) commercial
	33222	Salesperson (commercial/ travelling)/ Canvasser/ Salesperson, manufacturing
	33223	Adviser (after-sales service/technical service)
	33224	Consultant, sales: manufacturing/Executive, account:/sales (except ICT, industrial, medical and pharmaceutical products)/Manager, account: sales (except ICT, industrial, medical and pharmaceutical products)
	33225	Representative, sales: manufacturing
<b>3323</b>		<b>Buyers</b>
	33231	Agent (procurement/purchasing)
	33232	Buyer (merchandise (retail/wholesale trade)/supplies)
	33233	Purchaser (merchandise (retail/wholesale trade)/tobacco leaf)
	33234	Merchandiser, buying/Merchandiser, purchasing
	33235	Officer, procurement/Officer, purchasing/Officer, supply
<b>3324</b>		<b>Trade brokers</b>
	33241	Broker ( commodity/grain/shipping/cars/livestock/trade)/ futures: commodities)
	33242	Dealer(commodities/ commodity futures: commodities/ livestock/ textiles)
	33243	Shipbroker
	33244	Trader, commodities/Trader, futures: commodities

### **333 Business services agents**

Business service agents establish contacts to sell various business services such as advertising space in the media, carry out customs clearance activities ensuring that necessary documents are in order, match jobseekers with vacancies, find workers for employers, arrange contracts for the performance of athletes, entertainers and artists, as well as for the publication of books, the production of plays, or the recording, performing and sale of music, plan and organize conferences and similar events.

Tasks performed usually include -

Carrying out customs clearing procedures for exports or imports; arranging and coordinating conference and event services, such as conference facilities, catering, signage, displays, audiovisual and computer equipment, accommodation, transport and social events, for participants; matching jobseekers with vacancies; finding workers for vacant posts for employers; showing real estate properties to be sold or leased to prospective buyers or tenants and explaining terms of sale or conditions of rent or lease; selling by auction various kinds of property, cars, commodities, livestock, art, jewellery and other objects; arranging contracts for performers and performances.

Occupations in this minor group are classified into the following unit groups:

- 3331 Clearing and forwarding agents
- 3332 Conference and event planners
- 3333 Employment agents and contractors
- 3334 Real estate agents and property managers
- 3339 Business services agents not elsewhere classified

#### **3331 Clearing and forwarding agents**

Clearing and forwarding agents carry out customs clearing procedures and ensure that insurance, export/import licenses and other formalities are in order.

Tasks include -

- (a) carrying out customs clearing procedures for exports or imports;
- (b) ensuring that insurance is in order;
- (c) ensuring that export/import licenses and other formalities are in order;
- (d) signing and issuing bills of lading;
- (e) checking import/export documentation to determine cargo contents, and classifying goods into different fee or tariff groups, using a tariff coding system.

Examples of the occupations classified here:

- Clearing agent
- Forwarding agent
- Shipping agent

#### **3332 Conference and event planners**

Conference and event planners organize and coordinate services for conferences, events, functions, banquets and seminars.

Tasks include -

- (a) promoting conferences, conventions and trade shows to potential customers;
- (b) responding to inquiries concerning services provided and costs for room and equipment hire, catering and related services;
- (c) meeting with clients to discuss their needs and outlining package options to meet these

- needs;
- (d) arranging and coordinating services, such as, conference facilities, catering, signage, displays, audiovisual and computer equipment, accommodation, transport and social events, for participants, logistical arrangements for presenters;
- (e) organizing registration of participants;
- (f) negotiating the type and costs of services to be provided within budget;
- (g) overseeing work by contractors and reporting on variations to work orders.

Examples of the occupations classified here:

- Conference and event organizer
- Conference planner
- Wedding planner

### **3333 Employment agents and contractors**

Employment agents and contractors match jobseekers with vacancies, find workers for employers and contract labour for particular projects at the request of enterprises and other organizations including government, institutions, or find places for jobseekers for a commission.

Tasks include -

- (a) matching jobseekers with vacancies;
- (b) finding workers for vacant posts against a commission from the employer or worker;
- (c) discussing with enterprises/organizations the needed skills and other characteristics of the workers to be employed or contracted;
- (d) finding workers with appropriate skills, etc., and undertaking the necessary formalities according to national or international regulations and requirements;
- (e) ensuring that the employment contracts meet legal requirements and signing them;
- (f) advising on training schemes.

Examples of the occupations classified here:

- Employment agent
- Labour contractor
- Job placement officer

Some related occupations classified elsewhere:

- Literacy agent- 3339
- Musical performance agent - 3339
- Sports agent - 3339
- Theatrical agent – 3339

### **3334 Real estate agents and property managers**

Real estate agents and property managers arrange the sale, purchase, rental and lease of real property, usually on behalf of clients and on a commission basis.

Tasks include -

- (a) obtaining information about properties to be sold or leased, the circumstances of their owner and the needs of prospective buyers or tenants;
- (b) showing properties to be sold or leased to prospective buyers or tenants and explaining terms of sale or conditions of rent or lease;
- (c) facilitating negotiations with tenants and owners on rents and fees;
- (d) drawing up leasing and sale agreements and estimating costs;
- (e) arranging signing of lease agreements and transfer of property rights;
- (f) collecting rent and bond monies on behalf of owner and inspecting properties before, during and after tenancies;
- (g) ensuring the availability of workers to perform maintenance of the properties.

Examples of the occupations classified here:

- Estate agent
- Property Manager
- Realtor
- Salesperson (real estate)

Some related occupations classified elsewhere:

- Mortgage clerk – 4312

### **3339 Business services agents not elsewhere classified**

This unit group covers business services agents not classified elsewhere in Minor group 333, Business services agents. For instance, the group includes those who establish business contacts, sell business services such as advertising space in the media, arrange contracts for performances of athletes, entertainers and artists, for the publication of books, the production of plays, or the recording, performance and sale of music and who sell property and goods by auction.

In such cases tasks would include -

- (a) obtaining information about services to be sold and needs of prospective buyers;
- (b) negotiating contracts on behalf of seller or buyer and explaining terms of sale and payment to client;
- (c) signing agreements on behalf of seller or buyer and ensuring that contract is honoured;
- (d) making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time;
- (g) selling by auction various kinds of property, cars, commodities, livestock, art, jewellery and other objects.

Examples of the occupations classified here:

- Auctioneer
- Advertising salesperson
- Literary agent
- Musical performance agent
- Sports agent
- Theatrical agent

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>33</b>	<b>Sub-major Group</b>	<b>Business and administration associate professionals</b>
<b>333</b>	<b>Minor Group</b>	<b>Business services agents</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>3331</b>		<b>Clearing and forwarding agents</b>
	33311	Agent (clearing/shipping)
	33312	Zileadar
	33313	Broker, cargo
	33314	Broker, customs
<b>3332</b>		<b>Conference and event planners</b>
	33321	Conference and event organizer
	33322	Conference planner
	33323	Wedding planner

Unit Group	Sub-Unit Group	Description
3333	33324	Administrator, conference/Consultant, events /management/Coordinator (conference Events/ function/ wedding)
	33325	Manager(account: organizing conferences or events/ events/ functions/ reception: weddings)
	33326	Officer, activities: organizing conferences or events/Organizer, conference and event
	33327	Planner, conference/Planner, wedding/Producer, conference/Producer, events
		<b>Employment agents and contractors</b>
	33331	Agent, employment/ Contractor, labour
	33332	Officer (job placement/youth employment)
		<b>Real estate agents and property managers</b>
	33341	Agent (estate/house/property)
	33342	Manager, property/Realtor
3334	33343	Salesperson (property/real-estate)
	33344	Agent, rental: apartment/Agent, rental: housing
		<b>Business services agents not elsewhere classified</b>
	33391	Agent, commission (commodity auctions)
	33392	Agent (literary/musical performance/sports/theatrical)
	33393	Promoter, sports/(Representative/Salesperson) business services (advertising)
	33394	Agent, patent/Auctioneer
	33395	Dealer, art
	33396	Operator, tour
	33397	Salesperson( advertising / business services)

### 334 Administrative and specialized secretaries

Administrative and specialized secretaries provide organizational, communication and documentation support services, utilizing specialized knowledge of the business activity of the organization in which they are employed. They take supervisory responsibility for office clerks in the organization.

Tasks performed usually include:

Co-coordinating, assigning and reviewing the work of clerical support workers; desktop publishing; preparing and processing legal documents and papers, such as deeds, wills, affidavits and briefs; implementing and supporting the communication, documentation and internal managerial co-ordination activities of an organizational unit, on some occasions utilizing specialized knowledge of the business activity of the organization; scheduling and confirming meetings and appointments and communicating messages for clients; compiling, recording and reviewing legal and medical records, reports, documents and correspondence.

Occupations in this minor group are classified into the following unit groups:

- 3341 Office supervisors
- 3342 Legal secretaries

3343 Administrative and executive secretaries

3344 Medical secretaries

### **3341 Office supervisors**

Office supervisors supervise and co-ordinate the activities of workers in major group 4, Clerical support workers.

Tasks include :

- (a) coordinating, assigning and reviewing the work of clerks engaged in the following duties: word processing, record keeping and filing, operating telephones and switchboards; data entry, desktop publishing and other activities involving general office and administrative skills;
- (b) establishing work schedules and procedures and co-coordinating activities with other work units or departments;
- (c) resolving work-related problems and preparing and submitting progress and other reports;
- (d) training and instructing employees in job duties, safety procedures and company policies, or arranging for training to be provided;
- (e) evaluating employees' job performance and conformance to regulations, and recommending appropriate personnel action;
- (f) assisting in recruitment, interviewing, and selection of employees.

Examples of the occupations classified here:

- Clerical supervisor
- Data entry supervisor
- Filing clerks supervisor
- Personnel clerks supervisor

Some related occupations classified elsewhere:

- Medical records unit supervisor - 3252

### **3342 Legal secretaries**

Legal secretaries apply specialized knowledge of legal terminology and procedures in providing support to legal professionals with communication, documentation and internal managerial co-ordination activities, in law offices, legal departments of large firms and governments.

Tasks include -

- (a) preparing and processing legal documents and papers, such as deeds, wills, affidavits and briefs;
- (b) reviewing and proofreading documents and correspondence to ensure compliance with legal procedures;
- (c) mailing, faxing, or arranging for delivery of legal correspondence to clients, witnesses, and court officials;
- (d) organizing and maintaining documents, case files and law libraries;
- (e) screening requests for meetings, scheduling and organizing meetings;
- (f) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchasing or acquisition orders;
- (g) supervising the work of office support workers.

Examples of the occupations here:

- Legal secretary
- Legal practice manager

Some related occupations classified elsewhere:

Legal assistant – 3411

### **3343 Administrative and executive secretaries**

Administrative and executive secretaries perform liaison, coordination and organizational tasks in support of managers and professionals and/or prepare correspondence, reports and records of proceedings and other specialized documentation.

Tasks include -

- (a) drafting administrative correspondence and minutes;
- (b) obtaining, proposing and monitoring deadlines and follow-up dates;
- (c) screening requests for meetings, scheduling and organizing meetings and travel arrangements;
- (d) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchasing or acquisition orders;
- (e) liaising with other staff about a range of matters relating to the organization's operations;
- (f) writing and answering business or technical letters and other similar correspondence;
- (g) preparing verbatim reports of proceedings in legislative assemblies, courts of law or other places using shorthand or specialized office equipment.
- (h) supervising the work of clerical support workers.

Examples of the occupations classified here:

- Administrative secretary
- Correspondence assistant
- Personal assistant
- Court reporter
- Executive assistant

Some related occupations classified elsewhere:

Secretary (general) - 4120

Medical transcriptionist – 3344

### **3344 Medical secretaries**

Medical secretaries, using specialized knowledge of medical terminology and health care delivery procedures, assist health professionals and other workers by performing a variety of communication, documentation, administrative and internal coordination functions, to support health workers in medical facilities and other health-care related organizations.

Tasks include -

- (a) scheduling and confirming medical appointments and communicating messages for medical staff; and patients;
- (b) compiling, recording and reviewing medical charts, reports, documents and correspondence;
- (c) interviewing patients to complete forms, documents and case histories;
- (d) completing insurance and other claims forms;
- (e) maintaining medical files and records and technical library;
- (f) preparing financial statements and billing procedures;
- (g) assisting in the preparation of budgets, drafting of contracts and purchasing or acquisition orders;
- (h) supervising the work of office support workers and other office staff.



Example of the occupations classified here:

- Medical secretary
- Medical practice manager
- Medical office administrative assistant
- Hospital ward secretary
- Patient care secretary
- Medical stenographer
- Medical insurance
- Billing secretary
- Pathology secretary
- Medical transcriptionist
- Medical stenographer

Some related occupations classified elsewhere:

Medical records technician - 3252

Medical assistant - 3256

Medical office receptionist - 4226

Secretary (general) – 4120

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>33</b>	<b>Sub-major Group</b>	<b>Business and administration associate professionals</b>
<b>334</b>	<b>Minor Group</b>	<b>Administrative and specialized secretaries</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>3341</b>		<b>Office supervisors</b>
	33411	Supervisor, air transport service
	33412	Supervisor, telecommunications services
	33413	Supervisor/yardmaster, goods (railway)
	33414	Supervisor, road transport service
	33415	Officer, flight operation
	33416	Officer, documentation/ Planner, call centre workforce/Planner, contact centre workforce/Planner, workforce: contact centre/
	33417	Supervisor, postal services/ Supervisor, call centre/Supervisor, clerical/Supervisor, data entry/Supervisor, filing clerks/Supervisor, personnel clerks/Supervisor, / switchboard/ Supervisor, typist/Supervisor, word processing
	33418	Supervisor, telegraph operators/telephone exchange/ Leader, team: call centre/Leader, team: contact centre /Manager, contact centre team/Supervisor, contact centre/ Administrator, office/Controller, typist/Coordinator, administration: office administration or management/Manager, call centre team/Manager, front office: hospital or school Manager, office
	33419	Others office supervisor, n.e.c

Unit Group	Sub-Unit Group	Description
<b>3342</b>		<b>Legal secretaries</b>
	33421	Legal secretary
	33422	Legal practice manager
	33423	Assistant( administrative: legal/ executive: legal/ legal: /secretarial tasks)
	33424	Manager, legal practice
	33425	Paralegal, secretarial tasks
	33426	Secretary, conveyance/Secretary, litigation/Secretary, paralegal
	33427	Stenographer, legal
<b>3343</b>		<b>Administrative and executive secretaries</b>
	33431	Secretary, administrative (any type)
	33432	Superintendent, administration (any type)
	33433	Reporter (administrative (court/verbatim)/ shorthand (verbatim))
	33434	Assistant, correspondence / Clerk, correspondence and reporting
	33435	Personal assistant
	33436	Secretary, executive (consular office)/ Executive secretary (committee / government administration / non-government administration)/ Official, (consular / consul/ courier, <b>diplomatic</b> )
	33437	Assistant( administrative/ executive/ personal)
<b>3344</b>		<b>Medical secretaries</b>
	33441	Medical practice manager
	33442	Medical office administrative assistant/ Assistant, administrative: doctors surgery/Assistant, /administrative: medical office/Assistant, secretarial: doctors surgery/Assistant, secretarial: medical
	33443	Hospital ward secretary/ Secretary, dental/Secretary, doctor's/Secretary, hospital ward/ Secretary, medical/Secretary, medical insurance billing/Secretary, medical laboratory/Secretary, patient care
	33444	Patient care secretary
	33445	Medical stenographer
	33446	Pathology secretary
	33447	Medical transcriptionist

### **335 Regulatory government associate professionals**

Regulatory government associate professionals administer, enforce or apply relevant government rules and regulations relating to national borders, taxes, social benefits, and issue or examine applications for licenses or authorizations in connection with travel, exports and imports of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

Tasks performed usually include:

Patrolling national borders and checking persons and vehicles, travel and transport documents and goods transported across the border to ensure enforcement of government rules and regulations; examining tax returns to determine taxes payable by persons and businesses; examining and deciding on applications for social benefits, examining and deciding on applications for government authorizations and licenses necessary to travel, export or import goods, erect buildings, establish

businesses or undertake other activities subject to government regulations; monitoring the application of price, wage or weights and measures regulations. They may receive guidance from senior government officials or Managers. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 3351 Customs and border inspectors
- 3352 Government tax and excise officials
- 3353 Government social benefits officials
- 3354 Government licensing officials
- 3355 Police inspectors and detectives
- 3359 Regulatory government associate professionals not elsewhere classified

### **3351 Customs and border inspectors**

Customs and border inspectors check persons and vehicles crossing national borders to administer and enforce relevant government rules and regulations.

Tasks include -

- (a) patrolling national borders and coastal waters to stop persons from illegally entering or leaving the country and from illegally importing or exporting currency or goods;
- (b) checking travel documents of persons crossing national borders to ensure that they have the necessary authorizations and certificates;
- (c) inspecting the luggage of persons crossing national borders to ensure that it conforms to government rules and regulations concerning import or export of goods and currencies;
- (d) examining transport documents and freight of vehicles crossing national borders to ensure conformity with government rules and regulations concerning goods in transit and the import and export of goods, and to verify that necessary payments have been made;
- (e) detaining persons and seizing prohibited and undeclared goods found to be in violation of immigration and customs laws;
- (f) coordinating and co-operating with other agencies involved in law enforcement, deportation and prosecution;
- (g) performing related administrative tasks to record findings, transactions, violations and determinations;
- (h) when necessary, testifying in a court of law about the circumstances and results of investigations carried out.

Examples of the occupations classified here:

- Border inspector
- Customs inspector
- Passport checking officer
- Immigration officer
- Customs officer

### **3352 Government tax and excise officials**

Government tax and excise officials examine tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses, referring exceptional or important cases to accountants, senior government officials or Managers.

Tasks include -

- (a) advising organizations, enterprises and the public on government laws, rules and regulations concerning the determination and payment of taxes, duties and other government fees, and on the public's rights and obligations;

- (b) examining tax returns, bills of sale and other relevant documents to determine type and amount of taxes, duties and other types of fees to be paid;
- (c) investigating filed tax returns and accounting records, systems and internal controls of organizations to ensure compliance with taxation laws and regulations;
- (d) performing related administrative tasks to document findings, maintain records and report on actions taken for cases;

Examples of the occupations classified here:

- Excise officer
- Tax officer
- Taxation inspector

Some related occupations classified elsewhere:

- Accountant – 2411
- Auditor – 2411

### **3353 Government social benefits officials**

Government social benefits officials examine applications for government, financial or service programs to determine eligibility and amount of benefit or appropriate services, referring exceptional or important cases to senior government officials or managers.

Tasks include -

- (a) advising individuals and organizations on government laws, rules and regulations concerning government benefit programs and the determination and disbursement of payments or referral to services, as well as on the public's rights and obligations;
- (b) examining applications and other relevant documents to determine type and amount of benefit which individuals are eligible to receive;
- (c) assessing documentation and interviewing benefit recipients to ensure eligibility for continuing benefits or services;
- (d) performing related administrative tasks to maintain client records and prepare reports on determinations regarding eligibility, referral decisions, termination of benefits and abuse or fraud;

Examples of the occupations classified here:

- Pensions officer
- Social benefits officer
- Social security claims officer

Some related occupations classified elsewhere:

- Social workers - 2635
- Counselling professionals – 2635

### **3354 Government licensing officials**

Government licensing officials examine applications for licenses to export or import goods, set up businesses, build houses or other structures, or to obtain passports, determine eligibility of applications for issuing licenses or passports, and identify specific conditions or restrictions to be attached to licenses issued, referring exceptional or important cases to Senior government officials or Managers.

Tasks include -

- (a) advising individuals on government laws and regulations concerning the type of license required and the conditions attached to such licenses, and on the public's rights and obligations;
- (b) examining applications and relevant documents and determining whether a license can

- be granted and the conditions which should be attached;
- (c) examining applications and approving the issue of passports;
- (d) performing related administrative tasks to process applications, document activities, evaluations and determinations, and to prepare correspondence to inform applicants of licensing decisions;
- (e) administering and scoring tests required to license applicants.

Examples of the occupations classified here:

- Licensing officer
- Passport officer (issuing)
- Building permit (licensing) officer
- Business permit (licensing) officer

Some related occupations classified elsewhere:

- Building inspectors - 3112
- Fire inspectors – 3112

### **3355 Police inspectors and detectives**

Police inspectors and detectives investigate facts and circumstances relating to crimes committed in order to identify suspected offenders and obtain information not readily available or apparent concerning establishments or the circumstances and behaviour of persons, mostly in order to prevent crimes.

Tasks include -

- (a) establishing contacts and sources of information about crimes planned or committed, in order to prevent crimes or identify suspected offenders;
- (b) obtaining and verifying evidence by examining crime and accident scenes for clues and physical evidence, interviewing witnesses and suspects and analyzing documents and computer files;
- (c) analyzing evidence in order to solve crimes, identify criminal activity and gather information for court cases;
- (d) establishing contacts and sources of information not readily available or apparent concerning establishments or the circumstances and behaviour of persons, usually with the aim of preventing a crime;
- (e) making arrests;
- (f) testifying in courts of law or reporting to superiors about circumstances and results of investigations.

Examples of the occupations classified here:

- Police inquiry agent
- Police detective
- Police inspector

Some related occupations classified elsewhere:

- Police inspector-general - 1112
- Police commissioner - 1112
- Police superintendent - 1349
- Private detective - 3411
- Police officer – 5412

### **3359 Government regulatory associate professionals not elsewhere classified**

This unit group covers government regulatory associate professionals not classified elsewhere in Major group 3, Technicians and associate professionals. For instance the group includes agricultural, fisheries, forestry, prices, wages and weights and measures inspectors.

In such cases tasks would include -

- (a) examining places of business to ensure the use of correct weights and measures in trade;
- (b) monitoring price regulations to assess appropriateness of costs for goods and services to protect consumer interests;
- (c) monitoring wage regulations to ensure appropriate levels of pay for work performed and to assess compliance with employment standards legislation;
- (d) performing related investigative and administrative tasks to record findings, document compliance problems or inappropriate business practices and to prepare reports and correspondence.

Examples of the occupations classified here:

- Agricultural inspector
- Fisheries inspector
- Forestry inspector
- Prices inspector
- Wage inspector
- Weights and measures inspector

Some related occupations classified elsewhere:

- Fire inspector-3112
- Health Inspector - 3257
- Occupational safety inspector- 3257
- Pollution inspector - 3257
- Sanitary inspector – 3257

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>33</b>	<b>Sub-major Group</b>	<b>Business and administration associate professionals</b>
<b>335</b>	<b>Minor Group</b>	<b>Government regulatory associate professionals</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>3351</b>		<b>Customs and border inspectors</b>
	33511	Appraiser (principal)/ Preventive officer/ Superintendent (deputy), customs
	33512	Inspector (border/customs)/Officer, passport checking
	33513	Guard, border
	33514	Officer, customs
	33515	Officer, immigration
<b>3352</b>		<b>Government tax and excise officials</b>
	33521	Assistant/ Superintendent, (tax)
	33522	Inspector (excise and taxation/ income tax)
	33523	Collector, tax
	33524	Examiner, tax
	33525	Officer, excise
	33526	Officer, tax
<b>3353</b>		<b>Government social benefits officials</b>
	33531	Inspector, pensions
	33532	Officer (pensions/ social benefits/social security claims)

Unit Group	Sub-Unit Group	Description
<b>3354</b>		<b>Government licensing officials</b>
	33541	Inspector, licensing
	33542	Officer (licensing/ immigration/ passport issuing)
<b>3355</b>		<b>Police inspectors and detectives</b>
	33551	Inspector (assistant/sub) police
	33552	Inspector, ranger police
	33553	Agent, inquiry (police)
	33554	Officer, cypher/ Detective, store
	33555	Sepoy , ranger police
	33556	Constable, detective
	33557	Detective, police/Inspector, detective/Investigator, police/Officer, police: detective/Officer, police: inspector/Sergeant, detective
<b>3359</b>		<b>Government regulatory associate professionals elsewhere not classified</b>
	33591	Inspector (civil service/government administration/ marketing/ price/ rates (claims)/ wage/ weights and measures)
	33592	Official, electoral/Officer, non-gazetted
	33593	Censor, government administration
	33594	Inspector( agricultural/ fisheries/ forestry)

#### **34 Legal, social, cultural and related associate professionals**

Legal, social, cultural and related associate professionals perform technical tasks connected with the practical application of knowledge relating to legal services, social work, culture, food preparation, sport and religion.

Tasks performed in this sub-major group usually include:

Providing technical and practical services and support functions in legal processes and investigations, social and community assistance programs, and religious and cultural activities; participating and adjudicating in sporting events; developing and delivering sports coaching, fitness and recreational programmes; combining creative and technical skills in a variety of artistic, cultural and culinary activities; creating dishes and menus and overseeing the preparation of meals.

Occupations in this sub-major group are classified into the following minor groups:

- 341 Legal, social and religious associate professionals
- 342 Sports and fitness workers
- 343 Artistic, cultural and culinary associate professionals

#### **341 Legal, social and religious associate professionals**

Legal, social and religious associate professionals provide technical and practical services and support functions in legal processes and investigations, social and community assistance programs and religious activities.

Tasks performed usually include:

Assisting and supporting legal, social work and religious professionals; obtaining and analyzing evidence, preparing legal documents and serving court orders; ; administering and implementing social assistance programs and community services; assisting clients to deal with personal and social problems; providing practical assistance, guidance and moral support to individuals and communities.

Occupations in this minor group are classified into the following unit groups:

- 3411 Legal and related associate professionals
- 3412 Social work associate professionals
- 3413 Religious associate professionals

### **3411 Legal and related associate professionals**

Legal and related associate professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, the transferring of property and the granting of loans and other financial transactions or conduct investigations for clients.

Tasks include -

- (a) documenting court proceedings and judgements;
- (b) serving statements of claims, summonses, warrants, subpoenas and other court orders;
- (c) maintaining order in court and hearing rooms;
- (d) preparing legal documents including trial briefs, pleadings, appeals, wills and contracts and preparing, papers summarizing legal positions, or setting out conditions of loans or insurance;
- (e) investigating facts, assembling evidence and researching relevant statutes, decisions and other legal documents to prepare cases;
- (f) advising clients on legal matters;
- (g) examining documentation such as mortgages, liens, judgements, easements, contracts and maps in order to verify properties' legal descriptions and ownership;
- (h) preparing documents relating to transfer of real estate, stocks or other matters requiring formal registration;
- (i) investigating possible cases of theft of goods, money or information from business establishments and of other possible cases of unlawful behaviour by customers or employees;
- (j) investigating establishments or the circumstances and behaviour of persons on behalf of clients.

Examples of the occupations classified here:

- Bailiff
- Judge's clerk
- Conveyance clerk
- Court clerk
- Justice of the peace
- Law clerk
- Legal assistant
- Paralegal
- Private detective
- Title searcher

Some related occupations classified elsewhere:

- Lawyer - 2611
- Judge - 2612
- Notary - 2619
- Legal secretary - 3342



### **3412 Social work associate professionals**

Social work associate professionals administer and implement social assistance programs and community services and assist clients to deal with personal and social problems.

- (a) collecting information relevant to clients' needs and assessing their relevant skills, strengths and deficits;
- (b) helping persons with disabilities or the elderly to obtain services and to improve their ability to function in society;
- (c) assisting clients to identify options and develop plans of action while providing necessary support and assistance;
- (d) assisting clients to identify and access community resources including legal, medical and financial assistance, housing, employment, transportation, assistance with moves, day care and other referral services;
- (e) counselling clients living in group homes and half-way houses, supervising their activities and assisting in pre-release and release planning;
- (f) participating in the selection and admission of clients to appropriate programs;
- (g) providing crisis intervention and emergency shelter services;
- (h) implementing life skills workshops, substance abuse treatment programs, behaviour management programs, youth services programs and other community and social service programs under the supervision of social work or health care professionals;
- (i) assisting in evaluating the effectiveness of interventions and programs by monitoring and reporting on clients' progress;
- (j) maintaining contact with other social service agencies, schools and health care providers involved with clients to provide information and obtain feedback on clients' overall situation and progress.

Examples of the occupations classified here:

- Community development worker
- Community service worker
- Crisis intervention worker
- Disability services officer
- Family service worker
- Life skills instructor
- Mental health worker
- Welfare support worker
- Women's shelter supervisor
- Youth worker

Some related occupations classified elsewhere:

- Marriage counselor - 2635
- Parole officer - 2635
- Probation officer - 2635
- Social worker – 2635

### **3413 Religious associate professionals**

Religious associate professionals provide support to ministers of religion or to a religious community, undertake religious works, preach and propagate the teachings of a particular religion and endeavor to improve well-being through the power of faith and spiritual advice.

Tasks include -

- (a) undertaking religious works;
- (b) preaching and propagating the teachings of a particular religious faith;
- (c) assisting at services of public worship and religious rites;

- (d) providing religious education, spiritual guidance and moral support to individuals and communities;
- (e) administering and participating in programs to provide food, clothing and shelter to those in need;
- (f) advising communities and individuals on proper behaviour and faith to preserve or improve well-being.

Examples of the occupations classified here:

- Faith healer
- Lay preacher
- Monk
- Nun

Some related occupations classified elsewhere:

- Bonze - 2636
- Imam - 2636
- Minister of religion - 2636
- Poojari - 2636
- Priest - 2636
- Rabbi - 2636
- Herbalist - 3230
- Village healer - 3230
- Witch doctor- 3230

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>34</b>	<b>Sub-major Group</b>	<b>Legal, social, cultural and related associate professionals</b>
<b>341</b>	<b>Minor Group</b>	<b>Legal, social and religious associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3411</b>		<b>Legal and related associate professionals</b>
	34111	(Agent (inquiry)/Detective store/Investigator) private
	34112	Assistant (barrister's/legal/solicitor's/ broker's/ insurance/bank)
	34113	Clerk(barrister's/court)judge's/legal/probate/conveyancing/insurance/) adjustment (insurance)
	34114	Bailiff/ Bailiff (water)/Munshi/Naib court/Nazar
	34115	Reader/ Reader( court)/ Reader to district
	34116	Officer, law
	34117	Justice of the Peace/Paralegal/Searcher, title
<b>3412</b>		<b>Social work associate professionals</b>
	34121	Almoner/Caseworker (child/family/social welfare) associate professional
	34122	(Officer, family planning/ rural development/ parole/probation) (associate professional)
	34123	Social/welfare worker (medical/mental/other specialism)/blind/recovery of lost children/maternity and child (associate professionals)/social welfare worker (community/culture centre)

Unit Group	Sub-Unit Group	Description
	34124	Organizer, home help/Housemaster, approved school (associate professional)
	34125	Visitor, family planning (associate professional)
	34126	Leader, club/recreation (associate professional)
	34127	Housefather/mother/ community/cultural centre) (associate professional)
	34128	Warden, community centre/probation home (associate professional)/ Instructor, life skills/Supervisor, women's shelter/Worker( community development/ community services / crisis intervention/ delinquency: associate professional/ disability services / family services )/Worker, mental health support /Worker,
<b>3413</b>		<b>Religious associate professionals</b>
	34131	Faith healer
	34132	Evangelist
	34133	Preacher lay/Salvationist/Worker (parish/religious/ lay)
	34134	Monk/Nun (associate professional)/Muezzin
	34135	Brother/Friar/Sister, religious

## **342 Sports and fitness workers**

Sports and fitness workers prepare for and compete in sporting events for financial gain, train amateur and professional sportsmen and women to enhance performance, promote participation and standards in sport, organize and officiate sporting events, and provide instruction, training and supervision for various forms of exercise and other recreational activities.

Tasks performed usually include:

Participating in competitive sporting events; conducting sports training to develop ability in and knowledge of the sport; compiling rules concerning the conduct of sporting competitions, and controlling the progress of these events; planning, organizing and conducting practice sessions; developing and designing fitness programmes; delivering group exercise classes and personal tuition in a variety of fitness activities; promoting sports and sports skills development, and overseeing the participation of young people in sport.

Occupations in this minor group are classified into the following unit groups:

- 3421 Athletes and sports players
- 3422 Sports coaches, instructors and officials
- 3423 Fitness and recreation instructors and program leaders

### **3421 Athletes and sports players**

Athletes and sport players participate in competitive sporting events. They train and compete, either individually or as part of a team, in their chosen sport.

Tasks include –

- (a) participating in competitive sporting events;

- (b) participating in regular practice and training sessions and undertaking private training to maintain the required standard of fitness and skill;
- (c) undertaking sports promotional activities and media interviews;
- (d) maintaining a high degree of expertise in a particular sport ;
- (e) deciding on strategies in consultation with coaches;
- (f) assessing other competitors and conditions at venues;
- (g) competing in sporting events;
- (h) adhering to the rules and regulations associated with a specific sport.

Examples of the occupations classified here:

- Athlete
- Boxer
- Chess player
- Footballer
- Golfer
- Hockey player
- Jockey
- Poker player
- Race driver
- Skier
- Tennis player
- Wrestler

### **3422 Sports coaches, instructors and officials**

Sports coaches, instructors and officials work with amateur and professional sportspersons to enhance performance, encourage greater participation in sport, and organize and officiate in sporting events according to established rules.

Tasks include –

- (a) identifying strengths and weaknesses of athletes or teams;
- (b) planning, developing and implementing training and practice sessions;
- (c) developing, planning and coordinating competitive schedules and programs;
- (d) motivating and preparing athletes or teams for competitive events or games;
- (e) formulating competitive strategy, developing game plans and directing athletes and players during games or athletic events;
- (f) analyzing and evaluating athletes' or teams' performances and modifying training programs;
- (g) monitoring and analyzing technique and performance, and determining how future improvements can be made;
- (h) officiating at sporting events or athletic competitions to maintain standards of play and to ensure that game rules and safety regulations are observed;
- (i) recording lapsed time and keeping scores during events or competitions;
- (j) judging the performance of competitors, awarding points, imposing penalties for infractions and determining results;
- (k) compiling scores and other athletic records.

Examples of the occupations classified here:

- Sports coach
- Referee
- Ski instructor
- Sports official
- Swimming instructor

Some related occupations classified elsewhere:

Fitness instructor - 3423

Horse riding instructor – 3423

### **3423 Fitness and recreation instructors and program leaders**

Fitness and recreation instructors and program leaders lead, guide and instruct groups and individuals in recreational, fitness or outdoor adventure activities.

Tasks include –

- (a) planning and carrying out recreational and fitness activities;
- (b) monitoring recreational, sports or fitness activities to ensure safety and provide emergency or first aid assistance when required;
- (c) evaluating and monitoring clients' abilities and fitness and recommending activities;
- (d) demonstrating and teaching body movements, concepts and skills used in fitness routines and recreational activities;
- (e) instructing in the use of equipment;
- (f) explaining and enforcing safety procedures, rules and regulations.

Examples of the occupations classified here:

- Aerobics instructor
- Fitness instructor
- Horse riding instructor
- Outdoor adventure guide
- Personal trainer
- Sailing instructor
- Underwater diving instructor

Some related occupations classified elsewhere:

- Ski instructor - 3422
- Swimming instructor – 3422

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>34</b>	<b>Sub-major Group</b>	<b>Legal, social, cultural and related associate professionals</b>
<b>342</b>	<b>Minor Group</b>	<b>Sports and fitness workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3421</b>		<b>Athletes and sport players</b>
	34211	Athlete/ jockey
	34212	Player (bridge/chess/ billiards) professionals/ cards/Player, chess/ hockey/poker/ sports/ tennis)
	34213	Boxer/ Wrestler/ Aerialist, sport/Bodybuilder, muscles/Builder, body: muscles/, springboard or /platform/Fighter/ Gymnast, sport
	34214	Driver (motor racing)
	34215	Sportsman/ Racer (cycle)/ Footballer/Gambler/Goalkeeper/Golfer/Keeper, goal/ Racer, automobile/Skier/Sportsman/woman/Diver, springboard or platform.

Unit Group	Sub-Unit Group	Description
<b>3422</b>	34216	Cricketer/Jumper, show/Motorcyclist: racing/Racer, motor cycle/Rider, horse: sport
		<b>Sports coaches, instructors and officials</b>
	34221	Coach (athletic/sports/games)/Instructor (billiards/bridge/chess/rifle/sports)
	34222	Trainer (boxing/golf/martial arts/sports/wrestling)/instructor, ski
	34223	Referee/ Umpire/Starter, (sports)/ Steward (race tract)
<b>3423</b>	34224	Judge /Officer/Official, (sports)/ Secretary racing and handicapper
		<b>Fitness and recreation instructors and program leaders</b>
	34231	Instructor (physical training/sports)/ aerobics/ fitness/Instructor, /horse riding/ recreation/ underwater diving)
	34232	Trainer (yoga/ physical)/ Leader, program: recreation/Trainer, aerobics/Trainer, fitness/Trainer, personal
	34233	Sailing Instructor
	34234	Timer (horse race)/ Guide, outdoor adventure

### **343 Artistic, cultural and culinary associate professionals**

Artistic cultural and culinary associate professionals combine creative skills and technical and cultural knowledge in taking and processing still photographs; design and decoration of theatre sets, shop displays and the interiors of homes; preparation of objects for display; maintenance of library and gallery collections, records and cataloguing systems; creation of menus and preparation and presentation of food; provision of support for stage, film and television production; and in other areas of artistic and cultural endeavor.

Tasks performed usually include:

operating still cameras to photograph people, events, scenes, materials, products and other subjects; applying artistic techniques to product design, interior decoration and sales promotion; mounting and preparing objects for display; designing and arranging exhibit furnishings, display cases and display areas; designing menus and overseeing the preparation of food; assisting directors and performers with the staging of theatrical, motion picture, television or commercial productions

Occupations in this minor group are classified into the following unit groups:

- 3431 Photographers
- 3432 Interior designers and decorators
- 3433 Gallery, museum and library technicians
- 3434 Chefs
- 3435 Other artistic and cultural associate professionals

#### **3431 Photographers**

Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects.

Tasks include -

- (a) taking photographs for advertising, or other commercial, industrial or scientific purposes and to illustrate stories and articles in newspapers, magazines and other publications;
- (b) taking portrait photographs of persons and groups of persons;

- (c) studying requirements of a particular assignment and decide on type of camera, film, lighting and background accessories to be used;
- (d) determining picture composition, making technical adjustments to equipment and photograph subject;
- (e) operating scanners to transfer photographic images to computers;
- (f) operating computers to manipulate photographic images;
- (g) adapting existing photographic images to create new digitized images to be included in multimedia products;
- (h) using airbrush, computer or other techniques to create the desired visual effect.

Examples of the occupations classified here:

- Aerial photographer
- Commercial photographer
- Industrial photographer
- Photo - journalist
- Photographers
- Portrait photographer
- Scientific photographer

Some related occupations classified elsewhere:

- Film camera operator - 3521
- Video camera operator - 3521
- Electronics mechanic - 7421
- Photographic equipment repairer- 7311
- Photogravure photographer- 7321
- Photolithographer – 7321

### **3432 Interior designers and decorators**

Interior designers and decorators plan and design commercial, industrial, public, retail and residential building interiors to produce an environment tailored to a purpose, taking into consideration factors that enhance living and working environments and sales promotion. They coordinate and participate in their construction and decoration.

Tasks include -

- (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders;
- (b) researching and analyzing spatial, functional, efficiency, safety and aesthetic requirements;
- (c) formulating design concepts for the interiors of buildings;
- (d) preparing sketches, diagrams, illustrations and plans to communicate design concepts;
- (e) negotiating design solutions with clients, management, suppliers and construction staff;
- (f) selecting, specifying and recommending functional and aesthetic materials, furniture and products for interiors;
- (g) detailing and documenting selected design for construction;
- (h) coordinating the construction and the decoration of interiors;
- (i) designing and painting stage scenery;
- (j) designing and decorating show windows and other display areas to promote products and services.

Examples of the occupations classified here:

- Display decorator
- Interior decorator
- Set designer
- Window dresser
- Visual merchandiser

Some related occupations classified elsewhere:

- Interior architect – 2161

### **3433 Gallery, museum and library technicians**

Gallery, museum and library technicians prepare artworks, specimens and artifacts for collections, arrange and construct gallery exhibits, and assist Librarians to organize and operate systems for handling recorded material and files.

- (a) mounting and preparing objects for display;
- (b) designing and arranging exhibit furnishings, display cases and display areas;
- (c) assisting in setting up lighting and display equipment;
- (d) receiving, shipping, packing and unpacking exhibits;
- (e) ordering new library materials and maintaining library records and circulation systems;
- (f) cataloguing printed and recorded material;
- (g) entering data into databases and editing computer records;
- (h) operating audiovisual and reprographic equipment;
- (i) searching and verifying bibliographic data.

Examples of the occupations classified here:

- Gallery technician
- Library technician
- Museum technician
- Taxidermist

### **3434 Chefs**

Chefs design menus, create dishes and oversee the planning, organization preparation and cooking of meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.

Tasks include -

- (a) planning and developing recipes and menus, estimating food and labour costs, and ordering food supplies;
- (b) monitoring quality of dishes at all stages of preparation and presentation;
- (c) discussing food preparation issues with managers, dieticians, kitchen and waiting staff;
- (d) supervising and coordinating the activities of cooks and other workers engaged in food preparation;
- (e) inspecting supplies, equipment, and work areas to ensure conformance to established standards;
- (f) determining how food should be presented, and creating decorative food displays.
- (g) instructing cooks and other workers in the preparation, cooking, garnishing, and presentation of food;
- (h) participating on the recruitment of kitchen staff and monitoring their performance;
- (i) preparing, seasoning and cooking specialist foods and complex dishes;
- (j) explaining and enforcing hygiene and food safety regulations.

Examples of the occupations classified here:

- Chef
- Executive chef
- Head chef
- Pastry chef
- Saucier
- Sous-chef



Some related occupations classified elsewhere:

- Cook - 5120
- Fast food preparer - 9411

### **3435 Artistic and cultural associate professionals not elsewhere classified**

This unit group covers artistic and cultural associate professionals not classified elsewhere in Minor Group 344, Artistic, cultural and culinary associate professionals. For instance those who assist directors or actors with staging of theatrical, motion picture, television or commercial productions are classified here.

Examples of the occupations classified here:

- Body artist
- Floor manager (broadcasting)
- Lighting technician
- Program coordinator (broadcasting)
- Prompter
- Property master (broadcasting)
- Script-girl/boy
- Special effects technician
- Stage manager
- Stage technician
- Stunt coordinator
- Stunt artist
- Tattooist
- Theatre technician
- Theatrical dresser
- Walker-on

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>34</b>	<b>Sub-major Group</b>	<b>Legal, social, cultural and related associate professionals</b>
<b>343</b>	<b>Minor Group</b>	<b>Artistic, cultural and culinary associate professionals</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3431</b>	<b>Photographers</b>	
	34311	Photographer (advertising/commercial/fashion/micro)/ architecture/industrial/ medical/ news)/Photojournalist
	34312	Photographer (aerial/police/portrait/press/scientific)
	34313	Journalist, photo/Micro photographer/Operator, camera: still photography
<b>3432</b>	<b>Interior designers and decorators</b>	
	34321	Designer (graphic/lithographic/ typographical)/ armorial/ decoration/interior/ scenery/ set/ stage)
	34322	Decorator (interior/motion picture set)/ Decorator, film set
	34323	Dresser, window
	34324	Merchandiser, visual

Unit Group	Sub-Unit Group	Description
<b>3433</b>		<b>Gallery, museum and library technicians</b>
	34331	Director (art (motion picture)/display/ art (printing and publishing))
	34332	Supervisor, publication
	34333	Accessioner, library/Assistant, curatorial/Officer, reference: library
	34334	Taxidermist
	34335	Technician( curatorial/ gallery/ library/ museum)
<b>3434</b>		<b>Chefs</b>
	34341	Chef de cuisine Cook/Chef
	34342	Cook, sauces and condiments/ Chef, pastry/Cook, chief/Cook, head/Saucier/Sous-chef
	34343	Executive chef/ Chef head
<b>3435</b>		<b>Artistic and cultural associate professionals not elsewhere classified</b>
	34351	Tattooist
	34352	Body artist
	34353	Floor manager (broadcasting)
	34354	Lighting technician
	34355	Program coordinator (broadcasting)
	34356	Prompter
	34357	Artist, stunt/Boy, script/Coordinator, stunt/Dresser, theatrical/Girl, script/Man, stunt/Manager, stage/Master, property: broadcasting/Painter, body/Stuntman/Stuntwoman
	34358	Technician, special effects/stage/theatre/ walker-on

### **35 Information and communications technicians**

Information and communications technicians provide support for the day-to-day running of computer systems, communications systems and networks and perform technical tasks related to telecommunications, broadcast of image and sound as well as other types of telecommunications signals on land, sea or in aircraft.

Tasks performed by workers in this sub-major group usually include:

providing assistance to information and communications systems users ; installing new programs and equipment; establishing, operating and maintaining network and other data communications systems; installing, monitoring and supporting Internet and Intranet websites or web server hardware or software; modifying web pages; and performing web server backup and recovery operations; controlling equipment to record sound, edit and mix image and sound recordings; controlling and maintaining transmitting and broadcast systems and satellite systems for radio and television programmes; controlling and maintaining radio communications systems, satellite services, and multiplex systems on land, sea or in aircraft; providing technical assistance connected with research and the development of computer systems and telecommunications equipment, or testing prototypes; designing and preparing blueprints of circuitry according to the specifications given; providing technical supervision of the manufacture, utilization, maintenance and repair of telecommunications systems.

Occupations in this sub-major group are classified into the following minor groups:

- 351 Information and communications technology operations and user support technicians
- 352 Telecommunications and broadcasting technicians

### **351 Information and communications technology operations and user support technicians**

Information technology operations and user support technicians provide support for the day-to-day running of communications systems, computer systems and networks and provide technical assistance to users

Tasks performed usually include:

Operating and controlling peripheral and related computer equipment; monitoring systems for equipment failure or errors in performance; loading peripheral equipment, such as printers, with selected materials for operating runs, or oversee loading of peripheral equipment by peripheral equipment operators; answering user inquiries regarding software or hardware operation to resolve problems; installing and performing minor repairs to hardware, software, or peripheral equipment, following design or installation specifications; overseeing the daily performance of systems; setting up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software; establishing, operating and maintaining network and other data communications systems; installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software; modifying web pages; and performing web server backup and recovery operations.

Occupations in this minor group are classified into the following unit groups:

- 3511 Information and communications technology operations technicians
- 3512 Information and communications technology user support technicians
- 3513 Computer network and systems technicians
- 3514 Web technicians

### **3511 Information and communications technology operations technicians**

Information and communications technology operations technicians support the day-to-day processing, operation and monitoring of information and communications technology systems, peripherals, hardware, software and related computer equipment to ensure optimal performance, and identify any problems.

Tasks include -

- (a) operating and controlling peripheral and related computer equipment;
- (b) entering commands, using computer terminal, and activating controls on computer and peripheral equipment to integrate and operate equipment;
- (c) monitoring systems for equipment failure or errors in performance;
- (d) notifying supervisor or maintenance technician of equipment malfunctions;
- (e) responding to program error messages by finding and correcting problems, escalating the problem to other staff or terminating the program;
- (f) reading job set-up instructions to determine equipment to be used, order of use, material such as disks and paper to be loaded, and control settings;
- (g) retrieving, separating and sorting program output as needed, and sending data to specified

- users;
- (h) loading peripheral equipment, such as printers, with selected materials for operating runs, or oversee loading of peripheral equipment by peripheral equipment operators.

Examples of the occupations classified here:

- Computer operator
- High-speed computer printer operator
- Computer peripheral equipment operator

Some related occupations classified elsewhere:

Computer network technician - 3513

### **3512 Information and communications technology user support technicians**

Information and communications technology user support technicians provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and providing guidance and support in the deployment, installation and maintenance of systems.

Tasks include -

- (a) answering user inquiries regarding software or hardware operation to resolve problems;
- (b) entering commands and observing system functioning to verify correct operations and detect errors;
- (c) installing and performing minor repairs to hardware, software, or peripheral equipment, following design or installation specifications;
- (d) overseeing the daily performance of communications and computer systems;
- (e) setting up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software;
- (f) maintaining records of daily data communication transactions, problems and remedial actions taken, or installation activities.
- (g) emulating or reproducing technical problems encountered by users;
- (h) consulting user guides, technical manuals and other documents to research and implement solutions.

Examples of the occupations classified here:

- Communications assistant (ICT)
- Computer database assistant
- Computer engineering assistant
- Computer programming assistant
- Computer systems analysis assistant
- Computer help desk operator

### **3513 Computer network and systems technicians**

Computer network and systems technicians establish, operate and maintain network and other data communications systems.

Tasks include -

- (a) operating, maintaining and troubleshooting network systems;
- (b) operating and maintaining data communications systems other than networks;
- (c) assisting users with network and data communications problems;
- (d) identifying areas needing upgraded equipment and software;
- (e) installing computer hardware, network software, operating system software and applications software;

- (f) performing start up and close down as well as backup and disaster recovery operations for computer networks.

Examples of the occupations classified here:

- Computer network technician
- Network support technician

Some related occupations classified elsewhere:

- Network administrator - 2522
- Network analyst - 2511
- Computer operator - 3511
- Web technician - 3514

### **3514        Web technicians**

Web technicians maintain, monitor and support the optimal functioning of Internet and Intranet websites and web server hardware and software.

Tasks include -

- (a) installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software;
- (b) developing and maintaining documentation, policies and instructions, recording operational procedures and system logs;
- (c) developing, coordinating, implementing and monitoring security measures;
- (d) analyzing and making recommendations to enhance performance, including upgrading and acquiring new systems;
- (e) liaising with, and providing guidance to, clients and users;
- (f) modifying web pages;
- (g) performing web server backup and recovery operations.

Examples of the occupations classified here:

- Website administrator
- Website technician
- Webmaster

Some related occupations classified elsewhere:

- Computer systems administrator- 2522
- Network administrator - 2522
- Systems administrator - 2522
- Systems analyst - 2511
- Computer software designer- 2512
- Computer games designer- 2166
- Website designer - 2166
- Website developer – 2513

<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>35</b>	<b>Sub-major Group</b>	<b>Information and communications technicians</b>
<b>351</b>	<b>Minor Group</b>	<b>Information and communications technology operations and user support technicians</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>3511</b>		<b>Information and communications technology operations technicians</b>
	35111	Operator , computer
	35112	Operator , computer peripheral equipment
	35113	Assistant, computer: engineering (operations)/Operator, computer printer: high-speed
	35114	Technician, engineering: systems (computers
<b>3512</b>		<b>Information and communications technology user support technicians</b>
	35121	Computer Assistant (database analysis/ systems analysis /engineering)/ Assistant, computer: engineering (software support)/Assistant( computer: programming computer: user services/ programming: ICT)
	35122	Computer Assistant (programming/ communications)
	35123	Agent, technical support: information technology/Analyst, application support/ Analyst( computer: helpdesk/ computer: software support/ desktop: support/ helpdesk/ IT helpdesk) Analyst, PC support/Analyst, software: support
	35124	Consultant( internet: helpdesk/ internet: support/ IT helpdesk/ software support/ support: information technology/ technical: software support)
	35125	Engineer, computer: computer support/Engineer, customer service: computer helpdesk/Engineer, desktop support/Engineer, internet: helpdesk/Installer, software
	35126	Officer( computer services: helpdesk/ computer support/ customer service: computer support/ desktop applications support/ desktop support/ helpdesk: IT/internet: helpdesk/ internet: support/ IT support/ network support/ support: IT)
	35127	Operator( computer helpdesk/ helpdesk: IT/ helpdesk: software/ internet helpdesk/Representative, internet helpdesk/Representative, internet support
	35128	Technician, software/computer support, user support/ Technician customer service support computing/technician end user computing /technician internet helpdesk /computing
<b>3513</b>		<b>Computer network and systems technicians</b>
	35131	Technician (computer/engineering systems)
	35132	Assistant , communications: ICT/Assistant, /computer/communications Assistant, computer: network/Assistant, computer: systems design
	35133	Technician, computer: network/Technician, network support

Unit Group	Sub-Unit Group	Description
<b>3514</b>		<b>Web technicians</b>
	35141	Computer Assistant (systems design/users' services)
	35142	Computer Assistant ,Website (administrator/technician)
	35143	Administrator, website/Coordinator, web: managing website
	35144	Engineer, internet: managing websites/Manager, e-commerce: /imaging website/ Manager, information: website management/Manager, internet: managing website Manager, website/Master, web/Officer, web development
	35145	Publisher, desk-top: web/Publisher, electronic: internet/Publisher, web
	35146	Technician, website
	35147	Webmaster

## **352 Telecommunications and broadcasting technicians**

Telecommunications and broadcasting technicians control technical functioning of equipment to record and edit images and sound and for transmitting radio and television broadcasts of images and sounds, as well as other types of telecommunication signals on land, sea or in aircraft, perform technical tasks connected with telecommunications engineering research and with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

Tasks performed usually include:

controlling equipment to record sound, edit and mix image and sound recordings; controlling and maintaining transmitting and broadcast systems and satellite systems for radio and television programmes; controlling and maintaining radio communications systems, satellite services, and multiplex systems on land, sea or in aircraft; providing technical assistance connected with research and the development of telecommunications equipment, or testing prototypes; designing and preparing blueprints of circuitry according to the specifications given; providing technical supervision of the manufacture, utilization, maintenance and repair of telecommunications systems.

Occupations in this minor group are classified into the following unit groups:

- 3521 Broadcasting and audio-visual technicians
- 3522 Telecommunications engineering technicians

### **3521 Broadcasting and audio-visual technicians**

Broadcasting and audio-visual technicians control technical functioning of equipment to record and edit images and sound and for transmitting radio and television broadcasts of images and sounds, as well as other types of telecommunication signals on land, sea or in aircraft.

Tasks include -

- (a) controlling equipment to record sound;
- (b) controlling equipment to edit and mix image and sound recordings to ensure satisfactory quality and to create special image and sound effects;
- (c) applying knowledge of principles and practices of image and sound recording and editing in order to identify and solve problems;
- (d) controlling transmitting and broadcast systems and satellite systems for radio and television

- programmes;
- (e) controlling radio communications systems, satellite services, and multiplex systems on land, sea or in aircraft;
- (f) applying knowledge of principles and practices of broadcasting, telecommunications terminals and transmissions systems, in order to identify and solve problems;
- (g) making emergency repairs to equipment.

Examples of the occupations classified here:

- Audio-visual operator
- Broadcasting equipment operator
- Broadcast technician
- Cameraman/woman (motion picture)
- Cameraman/woman (video)
- Production assistant (media)

Some related occupations classified elsewhere:

- Photographer – 3431

### **3522 Telecommunications engineering technicians**

Telecommunications engineering technicians perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

Tasks include -

- (a) providing technical assistance connected with research and the development of telecommunications equipment, or testing prototypes;
- (b) studying technical material such as blue prints and sketches to determine the method of work to be adopted;
- (c) preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of telecommunications equipment, according to the specifications given;
- (d) providing technical supervision of the manufacture, utilization, maintenance and repair of telecommunications systems to ensure satisfactory performance and compliance with specifications and regulations;
- (e) applying technical knowledge of telecommunications engineering principles and practices in order to identify and solve problems arising in the course of their work.

Examples of the occupations classified here:

- Engineering technician (telecommunications)

Some related occupations classified elsewhere:

- Information and communications technology installers and repairers - 7422
- Engineering Technician (electronics) 3114
- Telecommunications technician - 7422
- Telephone installer – 7422



<b>3</b>	<b>Major Group</b>	<b>Technicians and associate professionals</b>
<b>35</b>	<b>Sub-major Group</b>	<b>Information and communications technicians</b>
<b>352</b>	<b>Minor Group</b>	<b>Telecommunications and broadcasting technicians</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>3521</b>		<b>Broadcasting and audio-visual technicians</b>
	35211	Cameraman, motion picture/ Cinematographer/ Assistant, production: media/ Cameraman, video/Mixer, sound
	35212	Operator (audio equipment (radio/television)/ microphone)/dubbing equipment/ sound-mixing equipment/ light/(camera (motion picture)/ (television))/ audiovisual/ studio equipment: radio/ studio equipment: television/ transmitting equipment: radio/transmitting equipment: television)
	35213	Operator, recording equipment (discs/tape/video/wire)
	35214	Tester, recording/Assistant, motion picture/ Worker, audio-metrical/Editor, sound (motion picture)
	35215	Technician (sound (radio/television studio)/ sound-effects/ sound-testing)/Mechanic, audio visual/ Technician( broadcasting/ sound-testing/ video)
	35216	Operator (Morse code/photo-radio/radio equipment (flight/land-based/sea-based/ radio telegraph)/ telecommunications equipment/wireless Semaphore)
	35217	Operator broadcasting equipment (radio/telecine/television/video/field)
	35218	Operator (control-room equipment (radio/television)/public address equipment/ cinematograph)
	35219	Inspector, telegraphic traffic/Officer, radio station/Signaller, telegraph/ Projectionist, cinema/Station telegrapher (railway)/Telegrapher/Telegraphist, testing
<b>3522</b>		<b>Telecommunications engineering technicians</b>
	35221	Supervisor (control room (radio/television)/control transmission (broadcasting))
	35222	Technician, control room (radio and television broadcasting)
	35223	Telecommunication-engineering technician (aerospace/other/radar/signal systems/radio/television/telegraph/telephone/other)
	35224	Officer( ship: radio/ morse code/ radio equipment: flight/ radio equipment: land-based/ radio equipment: sea-based) Operator( telecommunications: equipment/ telegraphic equipment)/telegrapher

## **Major Group 4**

### **Clerical Support Workers**

Clerical support workers record, organize, store, compute and retrieve information related, and perform a number of clerical duties in connection with money-handling operations, travel arrangements, requests for information, and appointments. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by clerical support workers usually include: stenography, typing, and operating word processors and other office machines; entering data into computers; carrying out secretarial duties; recording and computing numerical data; keeping records relating to stocks, production and transport; keeping records relating to passenger and freight transport; carrying out clerical duties in libraries; filing documents; carrying out duties in connection with mail services; preparing and checking material for printing; writing on behalf of illiterate persons; performing money-handling operations; dealing with travel arrangements; supplying information requested by clients and making appointments; operating a telephone switchboard. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 41 General and keyboard clerks
- 42 Customer services clerks
- 43 Numerical and material recording clerks
- 44 Other clerical support workers

#### **41 General and keyboard clerks**

General and keyboard clerks record, organize, store and retrieve information and perform a range of clerical and administrative tasks according to established procedures.

Tasks performed by workers in this sub-major group usually include: operating personal computers; word-processors or typewriters, recording, inputting and processing data using computers; to record input and process text, calculating, bookkeeping and similar office machines to input and process text and data; performing a wide range of general clerical duties including preparing invoices, checking figures, filing, faxing or processing mail.

Occupations in this sub-major group are classified into the following minor groups:

- 411 General office clerks
- 412 Secretaries (general)
- 413 Keyboard operators

##### **411 General office clerks**

General office clerks perform a range of clerical and administrative tasks according to established procedures.

Tasks performed usually include:

Recording, preparing, sorting, classifying and filing information; sorting, opening and sending mail; photocopying and faxing documents; preparing reports and correspondence of a routine nature; recording issue of equipment to staff; responding to telephone or electronic enquiries or forwarding to appropriate person; checking figures, preparing invoices and recording details of financial transactions

made; transcribing information onto computers, and proofreading and correcting copy.

Occupations in this minor group are classified into the following unit groups:

4110 General office clerks

**4110 General office clerks**

General office clerks perform a range of clerical and administrative tasks according to established procedures.

Tasks include -

- (a) recording, preparing, sorting, classifying and filing information;
- (b) sorting, opening and sending mail;
- (c) photocopying and faxing documents;
- (d) preparing reports and correspondence of a routine nature;
- (e) recording issue of equipment to staff;
- (f) responding to telephone or electronic enquiries or forwarding to appropriate person;
- (g) checking figures, preparing invoices and recording details of financial transactions made;
- (h) transcribing information onto computers, and proofreading and correcting copy.

Examples of the occupations classified here:

- General office clerk
- Office clerk

**4 Major Group Clerical support workers**

**41 Sub-major Group General and keyboard clerks**

**411 Minor Group General office clerks**

Unit Group	Sub-Unit Group	Description
<b>4110</b>		<b>General office clerks</b>
	41101	Checker, time / Timekeeper
	41102	Keeper/ Sorter, record
	41103	Clerk, addressing machine/ list (mail/addresses)
	41104	Clerk, office (general)

**412 Secretaries (general)**

Secretaries (general) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

Tasks performed usually include:

Checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards, using typewriter, personal computer or other word processing equipment; using various computer software packages, including spreadsheets, to provide administrative support; dealing with incoming or outgoing mail; scanning, recording and distributing mail, correspondence and documents; screening requests for meetings or appointments

and helping to organize meetings; screening and recording leave and other staff-members' entitlements; organizing and supervising filing systems; dealing with routine correspondence on their own initiative.

Occupations in this minor group are classified into the following unit groups:

4120 Secretaries (general)

#### **4120 Secretaries (General)**

Secretaries (general) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

Tasks include -

- (a) checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards, using typewriter, personal computer or other word processing equipment;
- (b) using various computer software packages including spreadsheets to provide administrative support;
- (c) dealing with incoming or outgoing mail;
- (d) scanning, recording and distributing mail, correspondence and documents;
- (e) screening requests for meetings or appointments and helping to organize meetings;
- (f) screening and recording leave and other staff-members' entitlements;
- (g) organizing and supervising filing systems;
- (h) dealing with routine correspondence on their own initiative.

Examples of the occupations here:

- Secretary
- Typing secretary
- Word-processing secretary

Some related occupations classified elsewhere:

- Administrative secretary - 3343
- Executive secretary - 3343
- Legal secretary - 3342
- Medical secretary – 3344

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>41</b>	<b>Sub-major Group</b>	<b>General and keyboard clerks</b>
<b>412</b>	<b>Minor Group</b>	<b>Secretaries (general)</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>4120</b>		<b>Secretaries (general)</b>
	41201	Secretary/ Stenography (typing/ word processing)
	41202	Secretary, confidential
	41203	Secretary, union council

## **413 Keyboard operators**

Keyboard operators input and process text and data, and prepare, edit and generate documents for storage, processing, publication and transmission.

Tasks performed usually include:

Entering data and codes required to process information; retrieving, confirming and updating data in storage and keeping records of data input; taking records of proceedings in rapid shorthand using computerized equipment and shorthand-writing machines; transcribing information recorded in shorthand and on sound recording equipment, and proofreading and correcting copy; reproducing the spoken word, environmental sounds and song lyrics as captions for cinema and television programming.

Occupations in this minor group are classified into the following unit groups:

- 4131 Typists and word processing operators
- 4132 Data entry clerks

### **4131 Typists and word processing operators**

Typists and word processing operators type, edit and print using typewriter, personal computer or other word processor, and record oral or written matter in shorthand.

Tasks include -

- (a) typing written material from rough drafts, corrected copies, voice recordings, or shorthand using a computer, word processor or typewriter;
- (b) checking completed work for proper spelling, grammar, punctuation and formatting;
- (c) gathering and arranging the material to be typed, following instructions;
- (d) filing and storing completed documents on computer hard drive or disk, or maintain a computer filing system to store, retrieve or update documents;
- (e) taking dictation and recording other matter in shorthand;
- (f) reproducing the spoken word, environmental sounds and song lyrics as captions for cinema and television programming;
- (g) transcribing information recorded in shorthand and on sound recording equipment.

Examples of the occupations classified here:

- Typist
- Word processor
- Stenographer
- Shorthand typist

Some related occupations classified elsewhere:

- Court reporter - 3343
- Medical transcriptionist – 3344

### **4132 Data entry clerks**

Data entry clerks enter coded, statistical, financial and other numerical data into electronic equipment, computerized databases, spreadsheets or other data repositories using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

Tasks include -

- (a) receiving and registering invoices, forms, records and other documents for data capture;
- (b) entering numerical data, codes and text from source material into computer-compatible storage and processing devices;
- (c) verifying accuracy and completeness of data and correcting entered data, if needed;
- (d) operating bookkeeping and calculating machines;
- (e) importing and exporting data between different database systems and software's.

Examples of the occupations classified here:

- Data entry operator
- Data input clerk
- Payment entry clerk

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>41</b>	<b>Sub-major Group</b>	<b>General and keyboard clerks</b>
<b>413</b>	<b>Minor Group</b>	<b>Keyboard operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>4131</b>		<b>Typists and word processing operators</b>
	41311	Operator, automatic typewriter/ Typist/ Varitypes/ Typist, shorthand
	41312	Stenographer (general/ specialized )
	41313	Clerk, just writing
	41314	Clerk, word processing
	41315	Clerk, telex/fax
	41316	Clerk (other)
	41317	Clerk, teleprinter/Clerk, typing
	41318	Just writer/Operator, word processing/Processor, word
	41319	Steno typist
<b>4132</b>		<b>Data entry clerks</b>
	41321	Clerk( data entry/punching machine (keys)/ electronic mail/ adding machine)
	41322	Clerk, data converter (any medium)/ Clerk, comptometer/Data entry/Punching machine (card & tape)/Operator, converter (tape to card)/Punched and sorting machine/tabulating machine
	41323	Operator/clerk( accounting machine/ bookkeeping machine/ calculating-machine/ computing machine)
	41324	Operator/clerk( automatic data-processing machine/ data input/payment entry)
	41325	Operator/clerk( posting machine/ invoicing machine/ Operator, comptometer)
	41326	Clerk, data entry (any machine)

## **42 Customer services clerks**

Customer service clerks deal with clients in connection with money-handling operations, travel arrangements, requests for information, making appointments, operating telephone switchboards, and interviewing for surveys or to complete applications for eligibility for services.

Tasks performed by workers in this sub-major group include: performing money-handling operations in banks, post offices, betting and gambling establishments or dealing with travel arrangements; supplying information requested by clients and making appointments; operating telephone switchboards; greeting and receiving visitors; interviewing survey respondents; interviewing applicants for services.

Occupations in this sub-major group are classified into the following minor groups:

- 421 Tellers, money collectors and related clerks
- 422 Client information workers

### **421 Tellers, money collectors and related clerks**

Tellers, money collectors and related clerks perform money-handling operations in establishments relating to banking, postal services, betting or gambling, pawning and debt-collecting.

Tasks performed usually include:

Dealing with clients of banks or post offices in connection with money operations or postal services; receiving and paying off bets on results of sporting events; conducting gambling games; lending money against articles deposited or other securities; collecting debts and other payments.

Occupations in this minor group are classified into the following unit groups:

- 4211 Bank tellers and related clerks
- 4212 Bookmakers, croupiers and related gaming workers
- 4213 Pawnbrokers and money-lenders
- 4214 Debt-collectors and related workers

#### **4211 Bank tellers and related clerks**

Bank tellers and related clerks deal directly with clients of banks or post offices in connection with receiving, changing and paying out money, or providing mail services.

Tasks include -

- (a) Process customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions;
- (b) crediting and debiting clients' accounts;
- (c) paying bills and making money transfers on clients' behalf;
- (d) receiving mail, selling postage stamps and conducting other post office counter business such as bill payments, money transfers and related business;
- (e) changing money from one currency to another, as requested by clients;
- (f) making records of all transactions and reconciling them with cash balance.

Examples of the occupations classified here:

- Post office counter clerk
- Money changer
- Bank teller

Some related occupations classified elsewhere:

- Cashier - 5230

#### **4212 Bookmakers, croupiers and related gaming workers**

Bookmakers and croupiers and related gambling workers determine odds and receive and pay off bets on results of sporting or other events, or conduct games of chance in gambling establishments.

Tasks include -

- (a) determining risks to decide odds and to hedge or refuse bets;
- (b) preparing and issuing lists of approximate odds;
- (c) distributing cards, rolling dice or spinning a roulette wheel;
- (d) explaining and interpreting operating rules of a gambling establishment;
- (e) announcing winning numbers, paying winners and collecting payments from losers;

Examples of the occupations classified here:

- Bookmaker
- Croupier

#### **4213 Pawnbrokers and money-lenders**

Pawnbrokers and money-lenders lend money against articles deposited as pledges, or against property or other security.

Tasks include -

- (a) evaluating articles offered as pledges, calculating interest, and lending money;
- (b) returning articles when the loan is paid or, in the event of non-payment, selling pledged articles;
- (c) lending money as personal loans against success of future harvest and other similar undertakings;
- (d) collecting loans when the pledge involved the success of future harvest and other similar undertakings;
- (e) keeping a record of items received and money distributed and received.;

Examples of the occupations classified here:

- Money-lender
- Pawnbroker

#### **4214 Debt-collectors and related workers**

Debt-collectors and related workers collect payments on overdue accounts and bad cheques and collect charity payments.

Tasks include -

- (a) tracing and locating debtors;
- (b) telephoning, visiting, or writing to customers to collect money or arrange for later payments;
- (c) preparing reports including amounts collected and maintain records and files related to collection work;
- (d) recommending legal action or discontinuation of service when payment cannot be otherwise obtained;
- (e) asking for and collecting charity payments.

Examples of the occupations classified here:

- Bill and account collector
- Charity collector
- Debt collector



<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>42</b>	<b>Sub-major Group</b>	<b>Customer services clerks</b>
<b>421</b>	<b>Minor Group</b>	<b>Tellers, money collectors and related clerks</b>

<b>Unit Group</b>	<b>Sub-Unit</b>	<b>Description</b>
<b>4211</b>		<b>Bank tellers and related clerks</b>
	42111	Cashier/ Teller, bank / cash-accounting
	42112	Cashier, currency exchange/ Moneychanger/ Assistant, bank/Cashier, bank/Cashier, change-booth/Clerk, bank
	42113	Clerk, post office counter
	42114	Cashier, other
	42115	Teller, other
<b>4212</b>		<b>Bookmakers and croupiers and related gambling workers</b>
	42121	Bookmaker / Clerk bookmaking/ Operator, gambling-table / pool (betting)
	42122	Croupier / Operator, pari-mutuel system
	42123	Croupier, gambling-table
	42124	Dealer, gaming
<b>4213</b>		<b>Pawnbrokers and money-lenders</b>
	42131	Money-lender
	42132	Pawnbroker
<b>4214</b>		<b>Debt-collectors and related workers</b>
	42141	Clerk, bills /Collector account
	42142	Collector, bill/ charity/ coupon/ debt/ payment/ rent

#### **422 Client information workers**

Client information clerks provide or obtain information in person, by telephone or electronic means such as e-mail in connection with making travel arrangements, describing the products or services of an organization, registering and greeting guests and visitors, making appointments, connecting telephone calls and collecting information from survey respondents or applicants for services.

Tasks performed usually include:

Preparing itineraries and making travel and hotel reservations for clients; greeting and receiving clients and visitors; registering accommodation guests; providing information concerning the goods, services or policies of an organization; making appointments; operating a telephone switchboard; interviewing survey respondents and applicants for eligibility.

Occupations in this minor group are classified into the following unit groups:

- 4221 Travel consultants and clerks
- 4222 Contact centre information clerks
- 4223 Telephone switchboard operators
- 4224 Hotel receptionists
- 4225 Enquiry clerks
- 4226 Receptionists (general)
- 4227 Survey and market research interviewers
- 4229 Client information workers not elsewhere classified

## **4221 Travel consultants and clerks**

Travel consultants and clerks supply information, arrange travel itineraries, obtain travel and accommodation reservations and organize group tours.

Tasks include -

- (a) obtaining information about the availability, cost and convenience of different types of transport and accommodation, ascertaining customer's requirements and advising them on travel arrangements;
- (b) preparing itineraries;
- (c) making and confirming reservations;
- (d) issuing tickets and vouchers;
- (e) helping customers in obtaining necessary travel documents such as visas;
- (f) preparing bills and receiving payments;
- (g) organizing group tours for business or vacation travel and selling them to groups or individuals.

Examples of the occupations classified here:

- Clerk, ticket issuing/travel
- Clerk, travel/airlines
- Clerk, travel agency
- Consultant, travel
- Organizer, travel

Some related occupations classified elsewhere:

Travel agency manager - 1439

Conference and event planner - 3332

Ticket issuing clerk (entertainment and sporting events) – 5230

## **4222 Contact centre information clerks**

Contact centre information clerks provide advice and information to clients, respond to queries regarding a company's or an organization's goods, services or policies, and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

Tasks include -

- (a) dealing with incoming calls and messages from clients, whether to answer queries, handle calls for service or sort out complaints;
- (b) identifying requirements and entering events into a computer system;
- (c) dispatching tasks to other units, when relevant;
- (d) invoicing or handling payments, where necessary;
- (e) sending letters, information sheets and other documents to clients;
- (f) advising clients of additional products or services.

Examples of the occupations classified here:

- Customer contact centre information clerk

Some related occupations classified elsewhere:

- Telemarketing salesperson - 5244
- Call centre salesperson - 5244

- Customer contact centre salesperson - 5244
- Telephone operator - 4223
- Market research interviewer - 4227

#### Notes

Only workers who respond to requests for information and/or handle straightforward transactions are classified in Unit Group 3222, Contact Centre Information Clerks. Those who provide specialized services, such as travel consultants, are classified in the relevant specialized group whether or not they are located in customer contact centres.

### **4223 Telephone switchboard operators**

Telephone switchboard operators operate telephone communications switchboards and consoles to establish telephone connections, receive caller inquiries and service problem reports, and record and relay messages to staff or clients.

Tasks include -

- (a) operating switchboards and consoles to connect, hold, transfer, and disconnect telephone calls;
- (b) making connections for outgoing calls;
- (c) dealing with telephone inquiries and recording messages;
- (d) forwarding messages to staff or clients;
- (e) investigating operating system problems and informing repair services.

Examples of the occupations classified here:

- Answering service operator
- Telephone Switchboard-operator

### **4224 Hotel receptionists**

Hotel receptionists register guests, assign rooms, issue keys, provide information concerning the hotel services, make room reservations, keep a record of rooms available for occupancy and present statements of charges to departing guests and receive payment.

Tasks include -

- (a) maintaining an inventory of rooms available for occupancy, reservations and room assignments;
- (b) registering arriving guests, assigning rooms; verifying customer's credit and issuing room keys;
- (c) providing information regarding hotel services and services available in the community;
- (d) providing information about availability of accommodation and making room reservations;
- (e) responding to guests' requests for housekeeping and maintenance services as well as complaints;
- (f) contacting housekeeping or maintenance services when guests report problems;
- (g) compiling and checking guest accounts for charges using computerized or manual systems;
- (h) receiving and forwarding messages in person or using telephone or telephone switchboard;
- (i) reviewing statements of charges to departing guests and receiving payment.

Examples of the occupations classified here:

- Hotel front desk clerk
- Hotel receptionist

### **4225 Enquiry clerks**

Enquiry clerks respond to personal, written, electronic mail, and telephone enquiries and complaints about the organization's goods, services and policies, provide information and refer people to other

sources. They are employed in locations which put them in direct contact with clients or with the production of the goods and services provided.

Tasks include -

- (a) answering inquiries about goods services, and policy and providing information about their availability, location, price and related issues;
- (b) responding to enquiries about problems and providing advice, information and assistance;
- (c) recording information about enquiries and complaints;
- (d) referring complex enquiries to team leaders or expert advisers;
- (e) issuing relevant forms, information kits and brochures to interested parties.

Examples of the occupations classified here:

- Counter enquiries clerk
- Information clerk

#### **4226 Receptionists (General)**

Receptionists (general) receive and welcome visitors, clients, or guests and respond to enquiries and requests including arranging for appointments.

Tasks include -

- (a) receiving and welcoming visitors, guests or clients;
- (b) making appointments for clients;
- (c) dealing with telephone requests for information or appointments;
- (d) directing clients to appropriate location or person;
- (e) supplying information pamphlets, brochures or forms.

Examples of the occupations classified here:

- Receptionist
- Medical office receptionist

Some related occupations classified elsewhere:

- Medical secretary - 3344
- Hotel receptionist – 4224

#### **4227 Survey and market research interviewers**

Survey and market research interviewers interview people and record their responses to survey and market research questions on a range of topics.

Tasks include -

- (a) contacting individuals by telephone or in person and explaining the purpose of the interview;
- (b) asking questions following the outlines of questionnaires and surveys;
- (c) recording responses on paper or entering responses directly into a computer database through computer-assisted interviewing systems;
- (d) identifying and resolving inconsistencies in responses;
- (e) providing feedback to survey sponsors concerning problems in obtaining valid data.

Examples of the occupations classified here:

- Market research interviewer
- Public opinion interviewer

- Survey interviewer

#### **4229 Client information workers not elsewhere classified**

This unit group includes client information workers not included elsewhere in minor group 422, Client information workers. For instance, it includes workers who obtain and process information from clients needed to determine eligibility for services.

In such cases tasks would include -

- (a) interviewing patients to obtain and process information required to provide hospital services;
- (b) interviewing applicants for public assistance to gather information pertinent to their application;
- (c) verifying the accuracy of information provided;
- (d) initiating procedures to grant, modify, deny or terminate assistance;
- (e) providing information and answering questions concerning benefits and claims procedures;
- (f) referring patient or applicant to other organizations if they are ineligible for services.

Examples of the occupations classified here:

- Hospital admissions clerk
- Eligibility interviewer
- Eligibility specialist

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>42</b>	<b>Sub-major Group</b>	<b>Customer services clerks</b>
<b>422</b>	<b>Minor Group</b>	<b>Client information workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>4221</b>		<b>Travel consultants and clerks</b>
	42211	Assistant, tourist information
	42212	Clerk, booking/ ticket issuing (travel agency)
	42213	Adviser, travel/Agent( booking: travel/ check-in/ ticket: airline/ ticket: travel/ travel)/Attendant( airport: check-in/ check-in: airline)/Clerk( check-in: airport/ information: travel/ reservations: travel/ tourism information/ travel/travel desk)/ recreational)
	42214	Consultant( travel/ tourism information/ travel/ visitor information)/Officer, tourism information
	42215	Organizer, travel
<b>4222</b>		<b>Contact centre information clerks</b>
	42221	Clerk, appointments
	42222	Clerk/officer, information
	42223	Agent, directory assistance/Assistant, call centre
	42224	Clerk, call centre/Clerk, customer contact centre/Clerk, information: call centre/Clerk, information: customer contact centre
	42225	Coach, call centre/Coach, contact centre/Coach, phone
	42226	Officer, customer service: call centre/Officer, customer service: directory
	42227	Operator, call centre/Operator, directory assistance

Unit Group	Sub-unit Group	Description
<b>4223</b>		<b>Telephone switchboard operators</b>
	42231	Attendant, switch board / Dispatcher, call/ Incharge, telex
	42232	Telephonist
	42233	Operator, switch board (telephone)/ Operator ,answering service
<b>4224</b>		<b>Hotel receptionists</b>
	42241	Receptionist, hotel
	42242	Hotel front desk clerk
<b>4225</b>		<b>Enquiry clerks</b>
	42251	Clerk/officer, inquiries/ Clerk, information
	42252	Clerk, inquiries: counter
<b>4226</b>		<b>Receptionists (general)</b>
	42261	Receptionists
	42262	Receptionist, medical/dental
	42263	Clerk, appointments
<b>4227</b>		<b>Survey and market research interviewers</b>
	42271	Clerk, survey / Enumerator/ Interviewer
	42272	Officer, Manpower Survey
	42273	Officer, mobile survey
	42274	Assistant, survey: interviewing/Interviewer, market research/Interviewer, public opinionInterviewer, survey
	42275	Officer, field: interviewing/Officer, field: market research
	42276	Operator, call centre: conducting surveys/Operator, telephone: market research
	42277	Operator, telephone: surveying/Researcher, interviewing: market research/ Researcher, interviewing surveys, market, cold calling, market interviewing or conducting surveys, market, telephone
	42278	Supervisor, market research, interviewing/Surveyor, telephone,/ market research
<b>4229</b>		<b>Client information workers not elsewhere classified</b>
	42291	Client information worker (other)/ Clerk, ward
	42292	Hospital admissions clerk
	42293	Eligibility interviewer/ specialist
	42294	Consultant, eligibility

### 43 Numerical and material recording clerks

Numerical clerks and material recording clerks obtain, compile and compute accounting, bookkeeping, statistical, financial, and other numerical data, and take charge of cash transactions incidental to business matters. Some occupations classified here keep records of goods produced, purchased, stocked, dispatched, and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

Tasks performed by workers in this sub-major group usually include:

Helping with accounting and bookkeeping records and computations; calculating unit production costs; calculating wages and in some cases preparing wage packets and paying wages, taking charge of cash transactions incidental to the business; obtaining, compiling and computing statistical or actuarial

data; performing clerical tasks relating to the financial transactions of an insurance establishment, bank or similar establishment; recording produced, stocked, ordered and dispatched goods; recording production materials received, put into stock or issued; computing quantities of the production materials required at specified dates and helping with preparation and checking of production operation schedules; keeping records of operational aspects and coordinating the timing of passenger and freight transport.

Occupations in this sub-major group are classified into the following minor groups:

- 431 Numerical clerks
- 432 Material-recording and transport clerk

### **431 Numerical clerks**

Numerical clerks obtain, compile and compute accounting, bookkeeping, statistical, financial, and other numerical data, and take charge of cash transactions incidental to business matters.

Tasks performed usually include:

Helping with accounting and bookkeeping records and computations; calculating unit production costs; calculating wages and in some cases preparing wage packets and paying wages; taking charge of cash transactions incidental to the business; obtaining, compiling and computing statistical or actuarial data; performing clerical tasks relating to the financial transactions of an insurance establishment, bank or similar establishment.

Occupations in this minor group are classified into the following unit groups:

- 4311 Accounting and bookkeeping clerks
- 4312 Statistical, finance and insurance clerks
- 4313 Payroll clerks

### **4311 Accounting and bookkeeping clerks**

Accounting and bookkeeping clerks compute, classify, and record numerical data to keep financial records complete. They perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records.

Tasks include -

- (a) checking figures, postings, and documents for correct entry, mathematical accuracy, and proper codes;
- (b) operating computers programmed with accounting software to record, store, and analyze information;
- (c) classifying, recording, and summarizing numerical and financial data to compile and keep financial records, using journals and ledgers or computers;
- (d) calculating, preparing, and issuing bills, invoices, account statements, and other financial statements according to established procedures.
- (e) compiling statistical, financial, accounting or auditing reports and tables pertaining to such matters as cash receipts, expenditures, accounts payable and receivable, and profits and losses.

Examples of the occupations included here:

- Accounts clerk
- Bookkeeping clerk
- Cost computing clerk

Some related occupations classified elsewhere:

- Accounting assistant- 3313
- Bookkeeper – 3313

## **4312 Statistical, finance and insurance clerks**

Statistical, finance and insurance clerks obtain, compile and compute statistical or actuarial data or perform clerical tasks relating to the transactions of insurance establishments, banks and other financial establishments.

Tasks include -

- (a) processing insurance enrolments, cancellations, claims transactions, policy changes and payments;
- (b) obtaining and compiling statistical or actuarial data based on routine or special sources of information;
- (c) calculating totals, averages, percentages and other details and presenting them in the required tabular form;
- (d) preparing financial documents, and calculating interest or brokerage charges and stamp duties payable;
- (e) maintaining records of bonds, shares and other securities bought or sold on behalf of clients or employer.

Examples of the occupations classified here:

- Actuarial clerk
- Brokerage clerk
- Finance clerk
- Insurance clerk
- Securities clerk
- Statistical clerk
- Tax clerk

Some related occupations classified elsewhere:

- Stocks and shares broker- 3311
- Accounting assistant- 3313
- Statistical assistant- 3314
- Trade broker- 3324
- Accounts clerk - 4311
- Bookkeeping clerk- 4311

## **4313 Payroll clerks**

Payroll clerks collect, verify and process payroll information and compute pay and benefit entitlements for employees within a department, company or other establishment.

Tasks include -

- (a) maintaining records of employee attendance, leave and overtime to calculate pay and benefit , using manual or computerized systems;
- (b) preparing and verifying statements of earnings for employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishments and insurance and pension plans;
- (c) preparing employee payments and benefit payments by cheque or electronic transfer;
- (d) reviewing time sheets, work charts, wage computation, and other information to detect and reconcile payroll discrepancies;
- (e) verifying attendance, hours worked, and pay adjustments, and posting information onto designated records.

Example of the occupations included here:

- Wages clerk



Some related occupations classified elsewhere:

- Accounting assistant- 3313
- Bookkeeper - 3313
- Accounts clerk - 4311
- Bookkeeping clerk- 4311

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>43</b>	<b>Sub-major Group</b>	<b>Numerical and material recording clerks</b>
<b>431</b>	<b>Minor Group</b>	<b>Numerical clerks</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>4311</b>		<b>Accounting and bookkeeping clerks</b>
	43111	Clerk, accounts/ audit/ bookkeeping (accounts/ discount)
	43112	Clerk, cost computing / estimating/ invoice/ ledger
	43113	Clerk, office cash
	43114	Clerk, auction
<b>4312</b>		<b>Statistical, finance and insurance clerks</b>
	43121	Clerk, actuarial / adjustment/ finance/ tax / currency
	43122	Clerk, bond / brokerage/ collateral/ credit/mortgage/ investment/ securities/ Clerk, audit/Clerk, finance/Clerk, insurance
	43123	Clerk, statistical/rating
	43124	Observer, silt / Watcher, tide
	43125	Assistant, broker's/Assistant, insurance: adjustment/Assistant, insurance: claims Assistant, insurance: policy
<b>4313</b>		<b>Payroll clerks</b>
	43131	Clerk, payroll
	43132	Clerk, salaries/wages

## **432 Material-recording and transport clerks**

Material-recording and transport clerks keep records of goods produced, purchased, stocked, dispatched, and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

Tasks performed usually include:

Recording produced, stocked, ordered and dispatched goods; recording production materials received, put into stock or issued; computing quantities of the production materials required at specified dates and helping with preparation and checking of production operation schedules; keeping records of operational aspects and coordinating the timing of passenger and freight transport.

Occupations in this minor group are classified into the following unit groups:

- 4321 Stock clerks
- 4322 Production clerks
- 4323 Transport clerks

### **4321 Stock clerks**

Stock clerks maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.

Tasks include -

- (a) arranging and controlling receipt and dispatch of goods and keeping relevant records;
- (b) maintaining stock records, verifying issue of goods, estimating needs and making requisitions of new stocks;
- (c) receiving, storing and issuing tools, spare parts, or various equipment and maintaining relevant records;
- (d) weighing goods received, issued, produced, or dispatched and maintaining relevant records;
- (e) compiling inventories of furniture and other items received for storage;

Examples of the occupations classified here:

- Freight clerk
- Dispatch clerk (stock)
- Stock clerk
- Storeroom clerk
- Weighing clerk

### **4322 Production clerks**

Production clerks compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes, and prepare and check production operation schedules.

Tasks include -

- (a) computing quantities, qualities and types of materials required by production programme;
- (b) preparing production requirements schedules, ensuring that materials are available when needed, and keeping relevant records;
- (c) preparing or assisting in the preparation of production operation schedules on the basis of customers' orders and production capacity and performance;
- (d) verifying stocks, arranging deliveries and investigating delays;
- (e) recording and coordinating the flow of work and materials between departments.

Examples of the occupations classified here:

- Production clerk
- Schedule clerk (materials)

### **4323 Transport clerks**

Transport clerks keep records of operational aspects and coordinate the timing of train, road and air passenger and freight transport, and prepare reports for management.

Tasks include -

- (a) keeping records of operational aspects and coordinating the timing of passenger and freight transport;
- (b) directing train routings within a division or zone of a railway system and keeping related records;
- (c) directing, controlling and keeping records of freight handling at a railway yard;
- (d) coordinating and keeping records of operational activities concerning road transport, such as allocation and scheduling of vehicles and drivers, loading and unloading of vehicles and storage of goods in transit;
- (e) coordinating and keeping records of operational activities concerning air transport of passengers and freight, such as passenger lists and freight manifests;
- (f) preparing reports for management.

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>43</b>	<b>Sub-major Group</b>	<b>Numerical and material recording clerks</b>
<b>432</b>	<b>Minor Group</b>	<b>Material-recording and transport clerks</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>4321</b>	<b>Stock clerks</b>	
	43211	Assistant, field (air cargo) / Clerk, freight (any type of freight)
	43212	Clerk /Arranger( store / stock-control (inventory /records)/ warehouse/ supply)
	43213	Issuer/ Lister( fuel / store/ tool/ material)
	43214	Clerk, weighing / Weigher/Clerk, depository: furniture/Clerk, dispatch: stock/Clerk, freight: dispatching/Clerk, freight: inward/Clerk, goods: inward/Clerk, receiving Clerk, scale/Clerk, storeroom/Clerk, tally/Clerk, weighbridge
	43215	Operator, weighbridge/ Attendant, tool crib
	43216	Store keeper
<b>4322</b>	<b>Production clerks</b>	
	43221	Clerk, planning (materials)
	43222	Clerk, production planning/coordination/ schedule
	43223	Clerk, order: materials/Clerk, production/Clerk, schedule: materials
<b>4323</b>	<b>Transport clerks</b>	
	43231	Transport clerks / Checker, bogey (railway)/Clerk, air transport operations/ forwarding (shipping and receiving)/Dispatcher, clerical (air transport/ boat/ gas/oil pipelines/ railway/ road transport)/ Shedman
	43232	Berthing master / Controller, clerical (airline traffic/ railway service/ road transport. service)/ Inspector/ Superintendent, clerical (road transport service)/ railway transport service/ traffic investigation
	43233	Examiner, train / Inspector, shed/ Yardman (railway)
	43234	Float master / Clerk, logistics
	43235	Clerk( dispatch: air transport/ flight operations freight: receiving/ freight: routing, freight: shipping/freight: traffic/ goods: railway
	43236	Controller, clerical( air transport service/ airline traffic/railway service/ train/ transport service)
	43237	Dispatcher clerical( aircraft/ boat/ bus/ gas pipelines/ oil pipelines/railway /train/ transport service/ truck)/Inspector, clerical( railway transport (service)/ road transport service)
	43238	Superintendent(clerical: barge/ cargo/ ferry/ quay/ water transport (terminal)/ wharf/ Yardmaster, railway)/ Wharfinger

#### **44 Other clerical support workers**

Other clerks perform clerical duties in newspapers, courts, libraries and post offices, file documents, prepare information for processing, maintain personnel records, check material for consistency with original source material and write on behalf of illiterate persons.

Performed by workers in this sub-major group usually include:

Recording information regarding acquisition, issue and return of library books; maintaining personnel records; classifying and filing various documents and other records; sorting, recording and delivering mail from post offices, as well as from or within an enterprise; coding; correcting proofs; performing a number of miscellaneous clerical duties; writing on behalf of persons who are unable to read and write.

Occupations in this sub-major group are classified into the following minor group:

441 Other clerical support workers

#### **441 Other clerical support workers**

Other clerks perform clerical duties in newspapers, courts, libraries and post offices, file documents, prepare information for processing, check material for consistency with original source material, maintain personnel records and write on behalf of persons who are unable to read or write.

Tasks performed usually include:

Recording information regarding acquisition, issue and return of library books; classifying and filing various documents and other records; maintaining personnel records; sorting, recording and delivering mail from post offices, as well as from or within an enterprise; coding; correcting proofs; performing a number of miscellaneous clerical duties; writing on behalf of persons who are unable to read or write.

Occupations in this minor group are classified into the following unit groups:

4411 Library clerks

4412 Mail carriers and sorting clerks

4413 Coding, proof-reading and related clerks

4414 Scribes and related workers

4415 Filing and copying clerks

4416 Personnel clerks

4419 Clerical support workers not elsewhere classified

#### **4411 Library clerks**

Library clerks issue and receive library materials, sort and shelve books, sound and vision recordings, periodicals, journals, magazines and newspapers and provide general library information to library users.

Tasks include -

- (a) issuing and receiving library books and other materials;
- (b) reshelving books and other library materials;
- (c) performing clerical activities such as manual and electronic filing, word processing and occasional Typing;
- (d) maintaining journal subscriptions;
- (e) assisting library users in accessing basic library materials and making interlibrary loans;
- (f) maintaining library records relating to the acquisition, issue and return of books and other materials.

Examples of the occupations classified here:

- Library clerk
- Library filer

#### **4412 Mail carriers and sorting clerks**

Mail carriers and sorting clerks perform sorting, recording, delivery and other duties in connection with mail services from post offices or related organizations, as well as from or within an establishment.

Tasks include -

- (a) performing mail-handling duties in public post offices or privately owned delivery establishments;
- (b) sorting and delivering mail to private houses and businesses;
- (c) providing delivery confirmation records when requested by the client;
- (d) sorting and keeping simple records of incoming and outgoing correspondence and dispatching outgoing mail in various establishments;

Examples of the occupations classified here:

- Mail clerk
- Post carrier
- Postman/woman

#### **4413 Coding, proof-reading and related clerks**

Coding, proof-reading, and related clerks convert information into codes, verify and correct proofs, and perform a number of miscellaneous clerical duties.

Tasks include -

- (a) converting information into codes and classifying information by codes for data-processing purposes;
- (b) comparing proofs of texts and related material prepared for printing with original material, correcting and marking texts for printer according to the established rules;
- (c) sorting forms and marking them with identification numbers;
- (d) sorting documents for filing or to collate sets of pages;
- (e) addressing circulars and envelopes by hand.

Examples of the occupations classified here:

- Coding clerk
- Proof reading clerk

#### **4414 Scribes and related workers**

Scribes and related workers write letters and complete forms on behalf of illiterate persons.

Tasks include -

- (a) reading letters and other written matter to persons who are unable to read or write and providing necessary interpretation and information;
- (b) writing letters and completing forms on behalf of others;
- (c) offering advice to individuals and interpreting and helping with the completion of government and other official forms;

Examples of the occupations classified here:

- Scribe

#### **4415 Filing and copying clerks**

Filing and copying clerks file correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. They locate and remove

material from file when requested and photocopy, scan or fax documents.

Tasks include -

- (a) sorting or classifying materials according to guidelines such as content, purpose, user criteria, or chronological, alphabetical, or numerical order;
- (b) filing material in drawers, cabinets and storage boxes;
- (c) locating and remove materials from files when requested;
- (d) keeping records of materials filed and removed;
- (e) photocopying, scanning or faxing documents.

Examples of the occupations classified here:

- Copying clerk
- Filing clerk

#### **4416 Personnel clerks**

Personnel clerks maintain and update personnel records such as information on transfers and promotions, performance evaluations, employee leave taken and accumulated, salaries, qualifications and training.

Tasks include –

- (a) updating information on, employment history, salaries, performance evaluations, qualifications and leave taken and accumulated;
- (b) initiating records for newly appointed workers and checking records for completeness;
- (c) processing applications for employment and promotions and advising applicants of results;
- (d) receiving and answering inquiries about employment entitlements and conditions;
- (e) sending out job applications and announcements of job openings and job examinations;
- (f) maintaining and updating manual and computerized filing and registration systems, and compiling and preparing reports and documents relating to personnel activities;
- (g) storing and retrieving personnel records and files on request.

Examples of the occupations classified here:

- Human resource assistant
- Human resource clerk

#### **4419 Clerical support workers not elsewhere classified**

This unit group covers clerical support workers not classified elsewhere in major group 4, Clerical support workers. For instance, the group includes, correspondence clerks, press clippers and publication clerks.

In such cases tasks would include -

- (a) receiving customers' orders for classified advertising, writing and editing copy, calculating advertising rates and billing customers.
- (b) writing business and government correspondence such as replies to requests for information and assistance, damage claims, credit and billing enquiries and service complaints.
- (c) assisting in the preparation of periodicals, advertisements, catalogues, directories and other material for publication;
- (d) reading newspapers, magazines, press releases and other publications to locate and file articles of interest to staff and clients.

Examples of the occupations classified here:

- Advertising clerk
- Correspondence clerk
- Directory compiler
- Publication clerk
- Press clipper

<b>4</b>	<b>Major Group</b>	<b>Clerical support workers</b>
<b>44</b>	<b>Sub-major Group</b>	<b>Other clerical support workers</b>
<b>441</b>	<b>Minor Group</b>	<b>Other clerical support workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>4411</b>		<b>Library clerks</b>
	44111	Clerk (Assistant), book-loan / library
	44112	Cataloguer, clerical / Clerk, classification/ index
	44113	Keeper, negative and plate
	44114	Clerk/operator, reproduction (office)
	44115	Clerk( acquisitions: library/ franking machine/ loans: library)/Filer, library)
	44116	Mimeographer
	44117	Officer ,loans library
<b>4412</b>		<b>Mail carriers and sorting clerks</b>
	44121	Controller/ Sorter, clerical (mail/postal service)
	44122	Clerk, post office/ Mailman/ Post carrier/ Postman
	44123	Courier, travel
	44124	Guard, mail / Clerk, dispatch: mail/Clerk, mail
	44125	Officer ,postal
	44126	Postil
<b>4413</b>		<b>Coding, proof-reading, and related clerks</b>
	44131	Revisor, coding/ listing/ scripts (data- processing/statistics)
	44132	Clerk, proof reading
	44133	Operator/clerk, document-sorting machine
	44134	Operator, franking machine
	44135	Clerk( classification: data processing/ classification: statistics/ coding/ coding: data-processing/ coding: statistics/ listing/ scripts)
	44136	Code( clerical/ data-processing/ statistics)
<b>4414</b>		<b>Scribes and related workers</b>
	44141	Scribe
	44142	Clerk, form filling assistance
	44143	Writer ,public

Unit Group	Sub-Unit Group	Description
<b>4415</b>		<b>Filing and copying clerks</b>
	44151	Clerk / Restorer, filing
	44152	Clerk, photocopying
	44153	Assistant, filing
	44154	Clerk, copying
	44155	Clerk, document duplication
	44156	Clerk, reproduction processes: office
<b>4416</b>		<b>Personnel clerks</b>
	44161	Clerk, compilation (directory)
	44162	Clerk, records (personnel)
	44163	Clerk, records( staff)
	44164	Assistant, human resource
	44165	Clerk( human resources/ leave/ personnel recruitment roster/ rostering workers)
	44166	Coordinator, crewing/Officer, crewing/Officer, rostering/Programmer, workforce.
	44167	Scheduler, crew
<b>4419</b>		<b>Clerical support workers not elsewhere classified</b>
	44191	Moharrar Thana
	44192	Clerk, cypher / kardex
	44193	Clerk (other)/ Daftri
	44194	Clerk( addressing machine/ advertising/ classified advertising/ correspondence/ list: addresses/ list: mail/ publication)
	44195	Clipper, press
	44196	Compiler, directory



## Major Group 5

### Service and Sales Workers

Service and sales workers provide personal and protective services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments, as well as at stalls and on markets. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by service and sales workers usually include:

Organizing and providing services during travel; housekeeping; preparing and serving of food and beverages; caring for children; providing personal and basic health care at homes or in institutions, as well as hairdressing, beauty treatment and companionship; telling fortunes; r and arranging funerals; providing security services and protecting individuals and property against fire and unlawful acts; enforcing of law and order; posing as models for advertising, artistic creation and display of goods; selling goods in wholesale or retail establishments, as well as at stalls and on markets; demonstrating goods to potential customers. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 51 Personal service workers
- 52 Sales workers
- 53 Personal care workers
- 54 Protective services worker

#### 51 Personal service workers

Personal service workers provide personal services related to travel, housekeeping, catering, child and personal care.

Tasks performed by workers in this sub-major group usually include:

Organizing and providing of services during travel; housekeeping; preparing and serving food and beverages; providing personal and basic health care at homes or in institutions, as well as hairdressing, beauty treatment and companionship; telling fortunes; embalming and arranging funerals; Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 511 Travel attendants, conductors and guides
- 512 Cooks
- 513 Waiters and bartenders
- 514 Hairdressers, beauticians and related workers
- 515 Building and housekeeping supervisors
- 516 Other personal services workers

#### 511 Travel attendants, conductors and guides

Travel attendants, conductors and guides provide various personal services in connection with travelling by aircraft, train, ship, bus or other vehicle, and escorting individuals and groups on travel tours, sightseeing visits and excursions.

Tasks performed usually include: ensuring the comfort and safety of passengers;

Serving food and refreshments; providing information and answering questions in connection with travel; collecting or issuing tickets on board public transport; accompanying individuals or groups on sightseeing tours or excursions and describing points of interest.

Occupations in this minor group are classified into the following unit groups:

- 5111 Travel attendants and travel stewards
- 5112 Transport conductors
- 5113 Travel guides

### **5111 Travel attendants and travel stewards**

Travel attendants and travel stewards ensure the comfort and safety of passengers, serve meals and beverages and render personal services, usually on aircraft and onboard ships. They may plan and coordinate housekeeping and social activities on ships.

Tasks include -

- (a) greeting passengers entering aircraft or ships, checking tickets or boarding passes, and directing them to their seats or berths;
- (b) announcing, explaining and demonstrating safety and emergency procedures, such as the use of oxygen masks, seat belts, and life jackets;
- (c) assembling and serving pre-prepared meals and beverages;
- (d) selling duty-free and other goods;
- (e) taking care of general needs and comfort of passengers, answering inquiries, and keeping cabins clean and tidy;
- (f) directing and assisting passengers and following prescribed procedures in the event of an emergency, such as evacuating a plane following an emergency landing;
- (g) verifying that first aid kits and other emergency equipment are in working order;
- (h) administering first aid to passengers in distress;
- (i) attending pre-flight briefings concerning weather, altitudes, routes, emergency procedures, crew coordination, lengths of flights, food and beverage services offered, and numbers of passengers;
- (j) preparing passengers and aircraft for take-off and landing;
- (k) determining special assistance needs of passengers such as small children, the elderly, or disabled persons.

Examples of the occupations classified here:

- Airport attendant
- Flight attendant
- Ship steward

### **5112 Transport conductors**

Transport conductors check and issue tickets and ensure the safety and comfort of passengers on trains, trams, buses and other public transport vehicles.

Tasks include -

- (a) collecting and issuing tickets, passes or fares, and checking the validity of tickets issued previously;
- (b) attending to sleeping-cars and their occupants on passenger trains;
- (c) providing assistance with boarding, seating and luggage as required, especially to elderly, sick, or injured people;
- (d) opening and closing doors for passengers;
- (e) performing equipment safety checks prior to departure;
- (f) signalling to drivers to stop or proceed;
- (g) greeting passengers boarding transportation equipment, and announcing routes and stops.
- (h) ensuring that safety regulations are respected;
- (i) responding to passengers requests and complaints and providing information about stops and connections;
- (j) taking appropriate action in case of emergencies or accidents.

Examples of the occupations classified here:

- Bus conductor
- Cable car conductor
- Ticket inspector (public transport)
- Train conductor
- Tram conductor

### **5113 Travel guides**

Travel guides accompany individuals or groups on trips, sightseeing tours and excursions and on tours of places of interest such as historical sites, industrial establishments and theme parks. They describe points of interest and provide background information on interesting features.

Tasks include -

- (a) escorting and guiding tourists on cruises and sightseeing tours;
- (b) escorting visitors through places of interest such as museums, exhibitions, theme parks, factories and other industrial establishments;
- (c) describing and providing information on points of interest and exhibits and responding to questions;
- (d) conducting educational activities for school children;
- (e) monitoring visitors' activities to ensure compliance with establishment or tour regulations and safety practices;
- (f) greeting and registering visitors and tour participants, and issuing any required identification badges or safety devices;
- (g) distributing brochures, showing audiovisual presentations, and explaining procedures and operations at tour sites;
- (h) providing for physical safety of groups, and performing activities such as providing first aid and directing emergency evacuations;
- (i) resolving any problems with tour itineraries, service, or accommodation.

Examples of the occupations classified here:

- Art gallery guide
- Tour escort

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>51</b>	<b>Sub-major Group</b>	<b>Personal service workers</b>
<b>511</b>	<b>Minor Group</b>	<b>Travel attendants, conductors and guides</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5111</b>		<b>Travel attendants and travel stewards</b>
	51111	Host(ess)/ Steward(ess) , air crew/airport/ship/bus/train
	51112	Attendant, airport/ flight/ ship's cabin
	51113	Purser, aircraft/ Purser, flight
	51114	Steward, cabin/Steward, chief: ship/Stewardess, /cabin/Stewardess, chief: ship Stewardess, ship
<b>5112</b>		<b>Transport conductors</b>
	51121	Conductor, (trolley)bus/ cable car/ ferryboat/ hovercraft/ pullman car/ tram/ train
	51122	Superintendent, travelling ticket examiner/ Examiner, travelling ticket
	51123	Attendant, pullman car/Attendant, sleeping car
	51124	Conductor, sleeping car/Guard, train: passengers
	51125	Inspector, ticket: public transport
<b>5113</b>		<b>Travel guides</b>
	51131	Travel guide (any type)/ Guide, museum/art gallery/factory etc.
	51132	Director, tour/Docent/Educator, museum/Escort, tour
	51133	Guide, discovery/Guide, industrial establishment/Guide, nature park Guide, safari/Guide, sightseeing/Guide, theme park/Guide, tour Guide, tourist/Guide, travel
	51134	Interpreter, historical/Interpreter, science
	51135	Manager, tour

## **512 Cooks**

Cooks plan, organize, prepare and cook meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households

Tasks performed usually include:

Planning meals, preparing and cooking foodstuffs; planning, supervising and coordinating the work of kitchen helpers; checking the quality of food; weighing, measuring and mixing ingredients according to recipes and personal judgment; regulating the temperature of ovens, grills, roasters and other cooking equipment; inspecting and cleaning the kitchen, kitchen equipment, serving areas, etc. to ensure safe and sanitary food handling practices; operating large-volume cooking equipment such as grills, deep-fat fryers, or griddles.

Occupations in this minor group are classified into the following unit group:

5120 Cook

## 5120 Cooks

Cooks plan, organize, prepare and cook meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.

Tasks include -

- (a) planning meals, preparing and cooking foodstuffs;
- (b) planning, supervising and coordinating the work of kitchen helpers;
- (c) checking the quality of food;
- (d) weighing, measuring and mixing ingredients according to recipes and personal judgment;
- (e) regulating the temperature of ovens, grills, roasters and other cooking equipment; inspecting and cleaning the kitchen, kitchen equipment, serving areas, etc. to ensure safe and sanitary food handling practices;
- (f) operating large -volume cooking equipment such as grills, deep-fat fryers, or griddles.

Examples of the occupations classified here:

- Cook

Some related occupations classified elsewhere:

- Chef - 3434

- Fast food preparer – 9411

**5 Major Group Service and sales workers**

**51 Sub-major Group Personal service workers**

**512 Minor Group Cooks**

Unit Group	Sub-unit Group	Description
<b>5120</b>		<b>Cooks</b>
	51201	Cook, canteen/restaurant/work camp/ ship
	51202	Cook, special diets/ vegetable
	51203	Cook, domestic
	51204	Cook, private service/ Laangri
	51205	Cook, (fish/meat) preserving/ sterilizing/ pressure

## 513 Waiters and bartenders

Waiters and bartenders serve food and beverages in commercial dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.

Tasks performed usually include:

Assisting in keeping bar properly stocked; washing used glassware and cleaning bar area; serving alcoholic and non-alcoholic drinks at a bar; setting tables with clean linen, cutlery, crockery and glassware; serving food and beverages; advising on the choice of wines and serving them; taking orders for food and/or drinks and passing order to kitchen; presenting bill and accepting payment.

Occupations in this minor group are classified into the following unit groups:

5131 Waiters

5132 Bartenders

## **5131 Waiters**

Waiters serve food and beverages at tables in dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.

Tasks include -

- (a) setting tables with clean linen, cutlery, crockery and glassware;
- (b) greeting customers and presenting them with menus and beverage lists;
- (c) advising on food and beverage choices;
- (d) taking orders for food and drinks and passing order to kitchen or bar staff;
- (e) serving food and beverages to clients at tables;
- (f) clearing tables and returning dishes and cutlery to kitchen;
- (g) presenting bills, accepting payment and operating point of sales machines and cash registers.

Example of the occupations classified here:

- Waiter

Some related occupations classified elsewhere:

- Cafe manager -1412
- Restaurant manager -1412
- Bartender – 5132

## **5132 Bartenders**

Bartenders prepare, mix and serve alcoholic and non-alcoholic drinks directly to customers over a bar or counter, or through waiters.

Tasks include -

- (a) taking beverage orders from serving staff or directly from patrons;
- (b) preparing and serving alcoholic and non-alcoholic drinks at a bar;
- (c) washing used glassware, cleaning and maintaining bar service areas, tea and coffee-making areas and equipment such as espresso machines;
- (d) collecting payment for sales, operating cash registers and balancing cash receipts;
- (e) tapping kegs and attaching supply lines;
- (f) assisting in keeping bar properly stocked and arranging bottles and glasses;
- (g) checking identification of customers to verify age requirements for purchase of alcohol;
- (h) taking steps to limit problems related to excessive drinking such, as persuading customers to stop drinking, declining further service and ordering transportation;
- (i) mixing ingredients to prepare cocktails and other drinks;
- (j) serving snacks or other food items to customers at the bar.

Examples of the occupations classified here:

- Bartender

Some related occupations classified elsewhere:

- Waiter – 5131

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>51</b>	<b>Sub-major Group</b>	<b>Personal service workers</b>
<b>513</b>	<b>Minor Group</b>	<b>Waiters and bartenders</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5131</b>		<b>Waiters</b>
	51311	Teamman/ Waiter (food/ wine)
	51312	Steward, mess/ ship (food/wine)
	51313	Maitre d'hotel
	51314	Attendant/ Seater/ Clearer (canteen/ restaurant)
	51315	Sommelier/Steward, ship: dining saloon/Stewardess, mess
	51316	Waiter, head/Waitress/Waitress, head/Waitress, wine
<b>5132</b>		<b>Bartenders</b>
	51321	Bartender/ Barman
	51322	Attendant, bar: drinks service/Barista
	51323	Barkeeper/Barmaid

#### **514 Hairdressers, beauticians and related workers**

Hairdressers, beauticians and related workers cut and dress hair, shave and trim beards, give beauty treatment, apply cosmetics and make-up and give other kinds of treatment to individuals in order to improve their appearance.

Tasks include -

- (a) discussing customers' requirements;
- (b) cutting and dressing hair;
- (c) shaving and trimming beards;
- (d) giving beauty treatment; and applying cosmetics and make up;
- (d) shaping and polishing finger- and toe-nails and treating minor ailments of the human foot;
- (e) attending clients taking baths and administering elementary massage.

Occupations in this minor group are classified into the following unit groups:

- 5141 Hairdressers
- 5142 Beauticians and related workers

#### **5141 Hairdressers**

Hairdressers cut, style, colour, straighten and permanently wave hair, shave or trim facial hair and treat scalp conditions.

Tasks include -

- (a) cutting, washing, tinting and waving hair;
- (b) shaving or trimming beards and moustaches;
- (c) giving scalp treatment;
- (d) fitting wigs according to customers' requirements;
- (e) providing advice on hair care, beauty products and hairstyles;

- (f) styling hair into dreadlocks and braids and adding hair extensions;
- (g) arranging appointments and collecting payments;
- (h) cleaning work areas and sanitizing instruments.

Examples of the occupations classified here:

- Barber
- Hairstylist
- Hairdresser
- Hair care specialist

## **5142 Beauticians and related workers**

Beauticians and related workers, give facial and body beauty treatments, apply cosmetics and make-up and give other kinds of treatment to individuals in order to improve their appearance.

Tasks include -

- (a) cleaning and applying creams, lotions and related products to face and parts of body;
- (b) giving facial and body massage;
- (c) applying make-up to clients of a beauty parlour or to actors and other performers;
- (d) cleaning, shaping and polishing finger- and toe-nails and treating minor ailments of the human foot such as corns, calluses or deformed toe-nails;
- (e) attending to clients taking baths and administering elementary massage;
- (f) using waxing, sugaring and depilation techniques to remove unwanted bodily hair;
- (g) advising clients on diet and exercise to assist in weight loss and slimming;
- (h) arranging appointments and collecting payments.

Examples of the occupations classified here:

- Bath attendant
- Beautician
- Pedicurist
- Manicurist
- Make-up artist
- Slimming consultant

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>51</b>	<b>Sub-major Group</b>	<b>Personal service workers</b>
<b>514</b>	<b>Minor Group</b>	<b>Hairdressers, beauticians and related workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>5141</b>		<b>Hairdressers</b>
	51411	Barber/ Hairdresser/ Hairstylist/ Dresser (wig)
	51412	Hair care specialist
	51413	Consultant, hair care/Specialist, hair care/
<b>5142</b>		<b>Beauticians and related workers</b>
	51421	Beautician/ <b>Beauty parlor</b> make-up (stage/studio)/ Cosmetologist
	51422	Trichologist/ Chiropodist/ Manicurist
	51423	Make-up artist (stage/studio)
	51424	Attendant, pool/bath/sauna/ salon
	51425	Artist, make-up/Attendant, hot-room/Attendant, spa/Attendant, turkish bath
	51426	Consultant, beauty/Consultant, slimming/Consultant, weight loss
	51427	Pedicurist /Therapist, beauty



## **515 Building and housekeeping supervisors**

Building and housekeeping supervisors coordinate, schedule, and supervise the work of cleaners and other housekeeping staff in commercial, industrial and residential premises. They take responsibility for housekeeping and caretaking functions in hotels, offices, apartments, houses and private dwellings.

Tasks usually include:

assigning tasks and inspecting building areas to see that cleaning, housekeeping and maintenance work has been done properly; issuing of supplies and equipment and inventory stocks to ensure that the supplies on hand are adequate; screening and hiring job applicants; training both new and experienced employees; recommending promotions, transfers or dismissals; performing some cleaning, housekeeping and maintenance tasks.

Occupations in this minor group are classified into the following unit groups:

- 5151 Cleaning and housekeeping supervisors in offices, hotels and other establishments
- 5152 Domestic housekeepers
- 5153 Building caretakers

### **5151 Cleaning and housekeeping supervisors in offices, hotels and other establishments**

Cleaning and housekeeping supervisors in offices, hotels and other establishments organize, supervise and carry out housekeeping functions in order to keep clean and tidy the interiors, fixtures and facilities in these establishments.

- (a) engaging, training, discharging organizing and supervising helpers, cleaners and other housekeeping staff;
- (b) purchasing or controlling the purchase of supplies;
- (c) controlling storage and issue of supplies;
- (d) supervising general welfare and conduct of individuals in institutions;
- (e) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures;
- (f) making beds, cleaning bathrooms, supplying towels, soap and related items;
- (g) cleaning kitchens and generally helping with kitchen work, including dishwashing;
- (h) restocking minibars and replenishing items such as drinking glasses and writing equipment.

Examples of the occupations classified here:

- Housekeeper (hotel)
- Matron (housekeeping)

Some related occupations classified elsewhere:

- Hotel manager - 1411
- Building caretaker - 5153
- Bed and breakfast operator - 5152
- Domestic housekeeper - 5152
- Domestic cleaner – 9111

### **5152 Domestic housekeepers**

Domestic housekeepers organize, supervise and carry out housekeeping functions in private households with or without the support of subordinate staff.

- (a) supervising workers employed in households as domestic staff;
- (b) purchasing or controlling the purchase of supplies;

- (c) controlling storage and issue of supplies;
- (d) assisting in cases of minor injury or illness by performing tasks such as taking temperature, giving medicine, putting g on bandages;
- (e) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures.
- (f) making beds, cleaning bathrooms, supplying towels, soap and related items;
- (g) taking care of household pets and plants, receiving visitors, answering telephones, delivering messages and shopping for groceries;
- (h) preparing and cooking meals, setting and clearing tables and serving food and beverages.
- (i) cleaning kitchens and generally helping with kitchen work, including dishwashing.

Examples of the occupations classified here:

- Bed and breakfast operator
- Butler
- Domestic Housekeeper

Some related occupations classified elsewhere:

- Hotel manager – 1411

#### Notes

Operators of small accommodation establishments, such as some bed and breakfast establishments and small guest houses, that provide accommodation and limited meal services to clients effectively as paying guests in private households, and for whom the management and supervision of staff is not a significant component of the work, are classified in unit group 5152, Domestic housekeepers.

### **5153 Building caretakers**

Building caretakers take care of apartment houses, hotels, offices, churches and other buildings and maintain them and associated grounds in a clean and orderly condition. They may supervise other workers and contractors depending on the size and nature of the building concerned.

Tasks include -

- (a) supervising the work of cleaning, housekeeping and building maintenance staff and contractors;
- (b) participating in cleaning, simple repairs and maintenance of building interiors;
- (c) tending furnaces and boilers to ensure provision of heat and hot water;
- (d) regulating conduct of tenants and visitors in such matters as noise abatement or misuse of property;
- (e) providing small services to absent tenants such as accepting deliveries on their behalf or providing requested information to callers;
- (f) notifying management and owners of buildings of the need for major repairs;
- (g) patrolling buildings to ensure security is maintained;
- (h) filling out registration forms and providing tenants with copies of rules.

Examples of the occupations classified here:

- Caretaker
- Concierge (building)
- Janitor
- Sexton

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>51</b>	<b>Sub-major Group</b>	<b>Personal service workers</b>
<b>515</b>	<b>Minor Group</b>	<b>Building and housekeeping supervisors</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5151</b>		<b>Cleaning and housekeeping supervisors in offices, hotels and other establishments</b>
	51511	Housekeeper (hotel/ executive)
	51512	Officer, catering
	51513	Supervisor, housekeeping (except private service)
	51514	Attendant /Servant (hostel/rest house)
	51515	Steward (chief) (hotel)
	51516	Matron (housekeeping)
	51517	Supervisor/ Warden (dormitory/ camp)/Boy, hostel
	51518	Steward, hotel/Stewardess, hotel/house
<b>5152</b>		<b>Domestic housekeepers</b>
	51521	Housekeeper (domestic)
	51522	Steward/ Butler/Servant (house)
	51523	Bed and breakfast operator
	51524	Operator, guest house
<b>5153</b>		<b>Building caretakers</b>
	51531	Caretaker/ Chowkidar (building) / Concierge/ Janitor (apartment house/ building)
	51532	Supervisor (auqaf property)/ Sexton/ Verger
	51533	Supervisor, air field (caretaker aerodrome)
	51534	Ayah, waiting room/Care taker, jockey room
	51535	Sacristan/Superintendent, building

## **516 Other personal services workers**

Other personal services workers recount past and predict future events in persons' lives, provide companionship and other personal services, groom, train and care for animals, provide embalming and funeral services train people to drive vehicles.

Tasks performed usually include:

Casting horoscopes; providing companionship or valet services and other personal services to clients; providing embalming and funeral services; feeding, handling, training and grooming animals; instructing students under actual driving conditions.

Occupations in this minor group are classified into the following unit groups:

- 5161 Astrologers, fortune-tellers and related workers
- 5162 Companions and valets
- 5163 Undertakers and embalmers
- 5164 Pet groomers and animal care workers
- 5165 Driving instructors
- 5169 Personal services workers not elsewhere classified

## **5161 Astrologers, fortune-tellers and related workers**

Astrologers, fortune-tellers and related workers recount past and predict future events in persons' lives by practicing astrology, on the basis of characteristics of the clients' palms, samples of playing cards drawn or other techniques.

Tasks include -

- (a) casting horoscopes of individuals at birth or later to recount past and forecast future events and conditions of their lives;
- (b) interpreting characteristics of clients' palms, samples of playing cards, position of tea leaves or coffee remnants in a cup, shapes and patterns of bones of dead animals, etc.;
- (c) forecasting future events on the basis of these interpretations;
- (d) determining auspicious times for various human activities such as inaugurations, marriages, journeys and religious and other ceremonies;
- (e) giving warnings and advice on possible courses of action;
- (f) advising individuals on precautions to be taken to avoid evil influences.

Examples of the occupations classified here:

- Astrologer
- Fortune-teller
- Numerologist
- Palmist

Some related occupations classified elsewhere:

- Witch doctor- 3230
- Faith healer – 3413

## **5162 Companions and valets**

Companions and valets provide companionship and attend to various needs of the employer.

Tasks include -

- (a) providing companionship to employer by accompanying him/her to various places, reading, conversing and participating in activities such as sports;
- (b) assisting in entertaining visitors in employer's home;
- (c) keeping wardrobe and personal effects of the employer in good order.

Examples of the occupations classified here:

- Companion
- Personal maid
- Valet

Some related occupations classified elsewhere:

- Social escort - 5169
- Dancing partner – 5169

## **5163 Undertakers and embalmers**

Undertakers and embalmers perform various tasks in the disposal of dead human bodies.

Tasks include -

- (a) making arrangements for, and conducting, funerals, cremations and burials;
- (b) embalming human bodies to retard or arrest the process of decay;
- (c) conforming to health and sanitation and ensuring that legal requirements concerning embalming are met;
- (d) incising and closing incisions on various parts of the body and reshaping or reconstructing

- disfigured or maimed bodies when necessary;
- (e) dressing bodies and placing them in caskets;
- (f) conducting interviews to arrange for preparation of obituary notices, to assist with the selection of caskets or urns, and to determine the location and time of burials or cremations.

Examples of the occupations classified here:

- Embalmer
- Undertaker

## **5164 Pet groomers and animal care workers**

Pet groomers and animal care workers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians in veterinary facilities, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, riding schools, dog training schools, pet grooming and similar establishments.

Tasks include -

- (a) bathing and feeding animals;
- (b) leading or carrying animals to treatment room and holding them during treatment;
- (c) cleaning and sterilising veterinary surgical instruments;
- (d) labeling drugs, chemicals and other pharmaceutical preparations and replenishing stock;
- (e) sterilising bottles, beakers and other equipment;
- (f) cleaning, organizing, and disinfecting animal quarters such as pens, stables, cages, and yards, and animal equipment such as saddles and bridles;
- (g) collecting and recording animal information such as weight, size, physical condition and, treatments received, medications given, and food intake;
- (h) training animals to develop and maintain desired animal behaviors for competition, entertainment, obedience, security, riding and other activities;
- (i) grooming animals by performing tasks such as washing, brushing, clipping, and trimming coats, cutting nails and cleaning ears.

Examples of the occupations classified here:

- Dog trainer
- Horse breaker
- Veterinary aid
- Zoo keeper

## **5165 Driving instructors**

Driving instructors teach people how to drive motor vehicles.

Tasks include -

- (a) instructing students under actual driving conditions, and explaining and demonstrating the operation of brakes, clutch, gear selection, automatic transmission, signals and lights;
- (b) teaching road traffic regulations;
- (c) teaching road craft and road safety;
- (d) advising students when they are ready to undergo driving examination;
- (e) advising on and teaching advanced driving techniques required for emergency situations;
- (f) illustrating and explaining handling and mechanical operation of motor vehicles and driving techniques using blackboard diagrams and audiovisual aids.

Examples of the occupations classified here:

Driving instructor

Some related occupations classified elsewhere:

- Flying instructor- 3153

## **5169 Personal services workers not elsewhere classified**

This unit group covers personal service workers not classified elsewhere in Sub-major group 51, Personal service workers. For instance, those who provide services and companionship as dancing partners, social escorts, and night-club hostesses or hosts are classified here.

In such cases tasks would include -

- (a) accompanying clients to restaurants and other outings;
- (b) acting as a dancing partner;
- (c) welcoming clients to a night-club and ensuring that they are entertained well.

Examples of the occupations classified here:

- Social escort
- Club host
- Club hostess
- Dancing partner

Some related occupations classified elsewhere:

- Companion – 5162

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>51</b>	<b>Sub-major Group</b>	<b>Personal service workers</b>
<b>516</b>	<b>Minor Group</b>	<b>Other personal services workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5161</b>		<b>Astrologers, fortune-tellers and related workers</b>
	51611	Astrologer
	51612	Fortune-teller
	51613	Numerologist
	51614	Palmist
<b>5162</b>		<b>Companions and valets</b>
	51621	Maid (personal)/ Manservant/ Valet
	51622	Valet ( hotel/Ship)
	51623	Companion
	51624	Companion, except health or aged care
	51625	Companion, lady's
	51626	Companion, man's
	51627	Maid, lady's

Unit Group	Sub-unit Group	Description
<b>5163</b>		<b>Undertakers and embalmers</b>
	51631	Attendant (funeral / undertaker's)
	51632	Director (funeral)/ Mortician/ Undertaker
	51633	Embalmer/ Gussal
<b>5164</b>		<b>Pet groomers and animal care workers</b>
	51641	Attendant/Aid (veterinary clinic)
	51642	Keeper (animal/ game/ zoo/ aviary/ kennel)
	51643	Trainer (camel/ dog/ horse-breaking/ racehorse)
	51644	Attendant, animal/Attendant, kennel/Attendant, laboratory: animal
	51645	Breaker, horse/Breeder, laboratory: animal
	51646	Gamekeeper/Horse-breaker/Raiser, laboratory: animal
	51647	Worker, kennel/Worker, laboratory: skilled (animals)
<b>5165</b>		<b>Driving instructors</b>
	51651	Driving instructor
	51652	Examiner, driving
	51653	Tester, driving
<b>5169</b>		<b>Personal service workers not elsewhere classified</b>
	51691	Host (club)

#### Notes

Countries that have a requirement to compile statistics on those who provide sexual services to clients on a commercial basis should include them in unit group 5169, Personal service workers not elsewhere classified. If there is a need, in national adaptations of ISCO-08, to identify this group separately from other occupational groups included in unit group 5169, use of unit group code 5168 is recommended for this purpose.

## 52 Sales workers

Sales workers sell and demonstrate goods in wholesale or retail shops, at stalls and markets, door-to-door, via telephone or customer contact centres. They may record and accept payment for goods and services purchased, and may operate small retail outlets.

Tasks performed by workers in this sub-major group may include the following:

Selling goods in wholesale or retail establishments or at street or market stalls, door-to-door, via telephone or customer contact centres; demonstrating and displaying goods to potential customers; selling and serving food for immediate consumption at counters and in the street; buying or contracting a regular supply of products to be sold; stacking and displaying goods for sale, and wrapping and packing goods sold; determining product mix, stock and price levels for goods to be sold; operating cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods and services. Supervision of other workers may be required in some occupations classified here.

Occupations in this sub-major group are classified into the following minor groups:

521 Street and market salespersons

- 522 Shop salespersons
- 523 Cashiers and ticket clerks
- 524 Other sales worker

#### Notes

Shop managers and sales managers are classified in Major group 1, Managers. Technical, medical and ICT sales professionals are classified in Major Group 2, Professionals. Commercial sales and insurance representatives, finance and trade brokers, are classified in Major group 3, Technicians and associate professionals. Street vendors (excluding food) are classified in Major group 9, Elementary occupations.

## 521 Street and market salespersons

Street and market salesperson sell goods from stalls on markets or in streets and prepare and sell hot or cold foods and beverages ready for immediate consumption in streets and public places.

Tasks performed usually include:

Obtaining permission to set up a stand at a particular place in streets, markets or other open spaces or to sell food and drinks on the street; buying or contracting a regular supply of products to be sold; erecting and dismantling stalls and stands; transporting, storing, loading and unloading products for sale; stacking, displaying and selling goods, food and drinks and accepting payment; wrapping and packing goods sold; preparing food and drinks for sale; pushing, pedalling or carrying hand-cart, truck, tray or basket to bring food and drinks to the desired place in the street, or to public places such as stations or cinemas; keeping accounts and maintaining a record of stock levels.

Occupations in this minor group are classified into the following unit groups:

- 5211 Stall and market salespersons
- 5212 Street food salespersons

#### Notes

Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionary) from pushcarts, trucks, trays or baskets are classified in minor group 952, Street vendors (excluding food).

## 5211 Stall and market salespersons

Stall and market salespersons sell various goods from stalls on open-air or covered markets or from stalls in streets or other open spaces.

Tasks include -

- (a) obtaining permission to set up a stand at a particular place in streets, markets or other open spaces;
- (b) determining product mix, stock and price levels for goods to be sold;
- (c) buying or contracting a regular supply of goods to be sold from wholesale suppliers or directly from producers;
- (d) erecting and dismantling stalls and stands, transporting, storing, loading and unloading goods for sale;
- (e) demonstrating and selling goods and accepting payment;
- (f) stacking and displaying goods for sale, and wrapping and packing goods sold;
- (g) keeping accounts and maintaining a record of stock levels.

Examples of the occupations classified here:

- Kiosk salesperson
- Market vendor



- Street stall sales assistant
- Market stallholder

Some related occupations classified elsewhere:

- Street food vendor - 5212
- Street vendor (excluding food) - 9520
- Shopkeeper - 5221
- Shop sales assistant - 5223
- Food service counter attendant – 5246

#### Notes

Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stalls of a variety of prepared meals and food items for immediate consumption are classified in unit group 5246, Food service counter attendants. Vendors in streets and public places of food and beverages for immediate consumption from pushcarts, trucks, trays or baskets are classified in unit group 5212, Street food salespersons. Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionary) from pushcarts, trucks, trays or baskets are classified in unit group 9520, Street vendors (excluding food). Workers who prepare simple food items for immediate consumption, such as hamburger cooks, but have limited direct contact with clients, are classified in unit group 9411, Fast food preparers. If adapting these categories to national circumstances please note that the aim of separately identifying vendors of food items for immediate consumption is to ensure that jobs that require skills in service, basic preparation and hygienic handling of food are visible. Food service counter attendants generally serve a wider range of more elaborate products and meals than Street food salespersons and do not generally transport or carry food on hand carts or in baskets.

### **5212 Street food salespersons**

Street food salespersons prepare and sell, or sell previously prepared, hot or cold foods and beverages ready for immediate consumption in streets and public places such as stations, cinemas, or theatres.

Tasks include –

- obtaining permission or a license, where required, to sell food and drinks on the street or in a public place;
- obtaining food and drinks for sale;
- preparing, either beforehand or on the spot, food and drinks for sale;
- loading and unloading, pushing, pedalling or carrying hand-cart, truck, tray or basket to bring food and drinks to the desired place in the street, or to public places such as stations or cinemas;
- displaying and selling food and drinks and accepting payment.

Examples of the occupations classified here:

- Street food vendor
- Hawker (food)

Some related occupations classified elsewhere:

- Cook - 5120
- Fast food preparer - 9411
- Food service counter attendant - 5246
- Street vendor (excluding food) – 9520

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>52</b>	<b>Sub-major Group</b>	<b>Sales workers</b>
<b>521</b>	<b>Minor Group</b>	<b>Street and market salespersons</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5211</b>		<b>Stall and market salespersons</b>
	52111	Salesperson (market)
	52112	Salesperson (kiosk/ street stall)
	52113	Seller (coupon)
	52114	Assistant, sales: market stall/Assistant, sales: street stall
	52115	Stallholder, market
	52116	Vendor, market
<b>5212</b>		<b>Street food salespersons</b>
	52121	Stall-holders /Khokhewalas/ Street salesperson (food)/ Hawker (food)
	52122	Vendor, refreshments (cinema/theatre/ road-railway transport)
	52123	Vendor (water ways/ fresh-water)
	52124	Peddler, food
	52125	Vendor, street: drinks
	52126	Vendor, street: food

#### Notes

Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stalls of a variety of prepared meals and food items for immediate consumption are classified in unit group 5246, Food service counter attendants. Vendors in streets and public places of food and beverages for immediate consumption from pushcarts, trucks, trays or baskets are classified in unit group 5212, Street food salespersons. Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionary) from pushcarts, trucks, trays or baskets are classified in unit group 9520, Street vendors (excluding food). Workers who prepare simple food items for immediate consumption, such as hamburger cooks, but have limited direct contact with clients, are classified in unit group 9411, Fast food preparers. If adapting these categories to national circumstances please note that the aim of separately identifying vendors of food items for immediate consumption is to ensure that jobs that require skills in service, basic preparation and hygienic handling of food are identified. Food service counter attendants generally serve a wider range of more elaborate products and meals than Street food salespersons and do not generally transport food using or sell food from equipment such as hand carts, bicycles or baskets.

## 522 Shop salespersons

Shop salespersons sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain functions and qualities of these goods and services, and may operate small shops or supervise the activities of shop sales assistants and cashiers.

Tasks performed usually include:

Determining customer requirements and advising on product range, price, delivery, warranties and product use and care; demonstrating and explaining and selling goods and services to customers; accepting payment for by a variety of payment methods and preparing sales invoices; undertaking or assisting with the ongoing management of stock such as product inventories and participating in stock takes; stacking and displaying goods for sale, and wrapping and packing goods sold; determining product mix, stock and price levels for goods to be sold; supervising and coordinating the activities of shop sales assistants, checkout operators and other workers in supermarkets and department stores.

Occupations in this minor group are classified into the following unit groups:

- 5221 Shopkeepers
- 5222 Shop supervisors
- 5223 Shop sales assistants

## **5221 Shopkeepers**

Shopkeepers operate small retail shops either independently or with support from a small number of others.

Tasks include -

- (a) determining product mix, stock and price levels for goods to be sold;
- (b) purchasing and ordering goods for sale from markets, wholesalers and other suppliers
- (c) budgeting and maintaining records of stock levels and financial transactions;
- (d) determining prices and displaying goods for sale;
- (e) selling goods to customers and advising them on product use;
- (f) examining returned goods and deciding on appropriate action;
- (g) taking inventory of goods in stock.

Examples of the occupations classified here:

- Shopkeeper
- Grocer
- Newsagent

Some related occupations classified elsewhere:

- Shop manager - 1420
- Market stall holder – 5211

### **Notes**

Only operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221, Shopkeepers. Operators of shops where management tasks and supervision of staff are significant and frequent elements of the work are classified in Unit group 1420, Retail and wholesale trade managers. Staff who control and direct the activities of shop sales assistants, checkout operators and other workers, but who do not take responsibility for determining product mix, overall setting of prices, budgets and staffing levels, selection and recruitment are classified in Unit group 5222, Shop supervisors.

## **5222 Shop supervisors**

Shop supervisors supervise and coordinate the activities of shop sales assistants, checkout operators and other workers in retail and wholesale shops such as supermarkets and department stores.

Tasks include -

- (a) planning and preparing work schedules and assigning staff to specific duties;
- (b) instructing staff on sales procedures, including how to handle difficult or complex cases;
- (c) ensuring that customers receive prompt service;
- (d) participating in and providing advice to managers on interviewing, hiring training, evaluating promoting and dismissing staff, and resolving staff grievances;
- (e) examining returned goods and deciding on appropriate action;
- (f) taking inventory of goods for sale and ordering new stock;
- (g) ensuring that goods and services are correctly priced and displayed;
- (h) ensuring that safety procedures are enforced.

Examples of the occupations classified here:

- Checkout supervisor
- Supermarket supervisor

Some related occupations classified elsewhere:

Shop managers - 1420

Shopkeepers - 5221

Street stall salesperson – 5211

#### Notes

Operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221, Shopkeepers. Shop managers who, in addition to supervision of staff, perform management tasks such as determining product mix, overall setting of prices, budgeting and making decisions on staff levels, selection and recruitment are classified in unit group 1420, Retail and wholesale trade managers.

### **5223 Shop sales assistants**

Shop sales assistants sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments, and explain the functions and qualities of these goods and services.

Tasks include –

- (a) determining customer requirements and advising on product range, price, delivery, warranties and product use and care;
- (b) demonstrating and explaining to customers the establishment's goods and services
- (c) selling goods and services, accepting payment by a variety of payment methods, preparing sales invoices and recording sales using cash registers;
- (d) assisting with the ongoing management of stock such as product inventories and participating in stock takes;
- (e) stacking and displaying goods for sale, and wrapping and packing goods sold.

Examples of the occupations classified here:

- Salesperson (retail establishment)
- Salesperson (wholesale establishment)
- Shop assistant

Some related occupations classified elsewhere:

Shop manager - 1420

Kiosk salesperson - 5211

Market salesperson - 5211

Street stall salesperson - 5211

Street food vendor - 5212

Shopkeeper - 5221

Checkout operator - 5230

Food service counter attendant – 5246

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>52</b>	<b>Sub-major Group</b>	<b>Sales workers</b>
<b>522</b>	<b>Minor Group</b>	<b>Shop salespersons</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5221</b>		<b>Shopkeepers</b>
	52211	Merchant Retail Trade
	52212	Shopkeeper (Retailer )Proprietor (retail trade)
	52213	Agent/ Proprietor (working) (import-export )
	52214	Newsagent
	52215	Florist, operating a shop
	52216	Grocer
	52217	Retailer//Retailer, internet/Retailer, online
<b>5222</b>		<b>Shop supervisors</b>
	52221	Supermarket supervisor
	52222	Checkout supervisor
	52223	Supervisor, sales assistants
	52224	Supervisor, shop
<b>5223</b>		<b>Shop sales assistants</b>
	52231	Salesperson/Order man (shop/retail establishment)
	52232	Salesperson (wholesale establishment)
	52233	Assistant/Attendant (shop/store)
	52234	Agent, leasing: vehicle/Assistant, pharmacy: sales
	52235	Clerk, sales/Clerk, store: sales/Consultant, sales: automobile
	52236	Representative, automobile leasing/Representative, sales: automobile
	52237	Salesperson, automobile/Salesperson, car

### **523 Cashiers and ticket clerks**

Cashiers and ticket clerks operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices.

Tasks include:

Receiving and verifying payment by cash, cheque credit card or automatic debit in stores, ticket offices, or similar establishments; giving change and issuing receipts; issuing tickets at ticket offices, and taking corresponding payments; counting and recording money received or paid out and balancing against cash register sales records; receiving incoming cash, checking it against sales slips and other documents, and preparing it for deposit at bank; operating cash register to calculate total to be paid from or to clients; scanning, weighing and recording prices of goods; wrapping and placing merchandise in bags.

Occupations in this minor group are classified into the following unit groups:

5230 Cashiers and ticket clerks

## **5230 Cashiers and ticket clerks**

Cashiers and ticket clerks operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices.

Tasks include -

- (a) receiving and verifying payment by cash, cheque credit card or automatic debit in stores, ticket offices, or similar establishments;
- (b) giving change and issuing receipts;
- (c) issuing tickets for attendance at sporting and cultural events;
- (d) counting and recording money received or paid out and balancing against cash register sales records;
- (e) receiving incoming cash, checking it against sales slips and other documents, and preparing it for deposit at bank;
- (f) operating cash register to calculate total to be paid from or to clients;
- (h) scanning, weighing and recording prices of goods;
- (i) wrapping and placing merchandise in bags.

Examples of the occupations classified here:

- Store Cashier
- Ticket issuing clerk (entertainment and sporting events)
- Checkout operator
- Service station console operator

Some related occupations classified elsewhere:

- Ticket issuing clerk (travel) – 4221
- Shop sales assistant – 5223
- Service station attendant – 5245
- Checkout supervisor – 5222

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>52</b>	<b>Sub-major Group</b>	<b>Sales workers</b>
<b>523</b>	<b>Minor Group</b>	<b>Cashiers and ticket clerks</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5230</b>		<b>Cashiers and ticket clerks</b>
	52301	Cashier (other)
	52302	Clerk (toll collection)
	52303	Clerk ticket issuing (entertainment and sporting events)
	52304	Agent, ticket: entertainment and sporting events/Assistant, sales: checkout Assistant, shop: checkout/Attendant( checkout/ gas station)/ cashier service station/ cashier, service station: console)
	52305	Cashier( booking-office/ box-office/ cash desk/ check-out: self-service store/ office/ restaurant/ service station/ store/ supermarket
	52306	Collector, toll
	52307	Operator( checkout/ service station console)

## **524 Other sales workers**

Other sales workers display, demonstrate, display and sell goods, food and services, usually to the general public, in contexts other than sales in markets, streets and shops. It includes sales workers not classified in minor groups 521 Street and market salespersons, 522 Shop salespersons and 523 Cashiers and ticket clerks

Tasks performed may include:

Displaying and demonstrating items for sale; posing for photographs, film and video, advertising, still photography or for artistic creation; answering questions and offering advice on the use of goods and services; taking orders and making arrangements for payment, delivery and collection of goods or for provision of services; selling goods and services and soliciting business by approaching potential customers by going from door to door or using the telephone or other electronic communications media; selling fuel, lubricants and other automotive products at service stations; providing services such as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles.

Occupations in this minor group are classified into the following unit groups:

- 5241 Fashion and other models
- 5242 Sales demonstrators
- 5243 Door to door salespersons
- 5244 Contact centre salespersons
- 5245 Service station attendants
- 5246 Food service counter attendants
- 5249 Sales workers not elsewhere classified

### **Notes**

Sales managers are classified in major group 122 Sales, marketing and development managers. Technical, medical and ICT sales professionals are classified in minor group 243, Sales, marketing and public relations professionals. Commercial sales and insurance representatives are classified in minor group 332, Sales and purchasing agents and brokers.

## **5241 Fashion and other models**

Fashion and other models wear and display clothing and accessories and pose for photographs, film and video, advertising, still photography or for artistic creation.

Tasks include -

- (a) dressing in sample apparel of new or current styles or of type wanted by customer;
- (b) walking, turning and posing to demonstrate style and characteristics of garments, fashion accessories and other merchandise to best advantage;
- (c) posing as subject for sculpture, painting and other types of visual art;
- (d) posing for still photography for magazines and other advertising media;
- (e) posing for television, video and cinema commercials and other productions.

Examples of the occupations classified here:

- Advertising model
- Artist's model
- Fashion model

Some related occupations classified elsewhere:

Actor – 2655

## **5242 Sales demonstrators**

Sales demonstrators demonstrate goods at commercial premises, exhibitions and private homes.

Tasks include -

- (a) setting up displays and demonstrating articles for sale to inform customers about their characteristics and mode of use, as well as to stimulate buying interest;
- (b) answering questions and offering advice on the use of goods;
- (c) selling goods or directing customers to sales staff;
- (d) taking orders and making arrangements for payment, delivery and collection of goods;
- (e) offering sample goods and distributing catalogues and advertising material.

Examples of the occupations classified here:

- Demonstrator
- Sales merchandiser

Some related occupations classified elsewhere:

- Market salesperson - 5211
- Street stall salesperson - 5211
- Door to door salesperson – 5243

## **5243 Door to door salespersons**

Door to door salespersons sell goods and services and solicit business for an establishment, by approaching or visiting potential customers, usually residents in private homes, by going from door to door.

Tasks include -

- (a) giving details of various goods or services and of terms of sale by visiting clients and potential clients door to door;
- (b) demonstrating or describing goods or services on offer;
- (c) recording orders and transactions and placing orders received with suppliers;
- (d) preparing invoices and sales contracts and accepting payment;
- (e) distributing letters, information sheets and other documents to clients;
- (f) compiling lists of prospective clients and calling on them to obtain new business;
- (g) travelling between sales areas and clients and transporting samples or goods for sale.

Examples of the occupations classified here:

- Door to door salesperson
- Door to door sales representative
- Party plan salesperson

Some related occupations classified elsewhere:

- Commercial sales representative - 3322
- Street vendor – 9520

## **5244 Contact centre salespersons**

Contact centre salespersons contact existing and prospective customers, using the telephone or other electronic communications media, to promote goods and services, obtain sales and arrange sales visits. They may work from a customer contact centre or from non-centralised premises.

Tasks include -

- (a) promoting goods and services by telephone or electronic mail, following scripts and working



- form lists of contacts;
- (b) creating interest in goods and services, and seeking a sale or agreement to see sales representatives;
- (c) arranging processing and dispatch of goods and services, information kits and brochures to customers;
- (d) arranging appointments for sales representatives;
- (e) recording notes for follow-up action and updating marketing databases to reflect changes to the status of each customer;
- (f) reporting competitor activities and issues raised by contacts for attention by managers;
- (g) maintaining statistics of calls made and successes achieved;
- (h) submitting periodic reports on telemarketing activities and results.

Examples of the occupations classified here:

- Telemarketing salesperson,
- Call centre salesperson,
- Customer contact centre salesperson,
- Internet salesperson
- Telemarketer

Some related occupations classified elsewhere:

Contact centre information clerk – 4222

## **5245 Service station attendants**

Service station attendants sell fuel, lubricants and other automotive products and provide services such as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles.

- (a) filling fuel tanks and containers to level specified by customer;
- (b) checking and replenishing air pressure in vehicle tyres, and oil and other vehicle fluid levels;
- (c) washing vehicle windscreens and windows;
- (d) performing minor repair work to vehicles such as replacing tyres, light bulbs and windscreen wiper blades;
- (e) maintaining and operating automatic car wash facilities;
- (f) collecting payments from customers for purchases;
- (g) cleaning petrol pumps and surrounding driveway, shop and facilities;
- (h) undertaking stock control and preparing reports on fuel, oil, accessories and other items sold.

Examples of the occupations classified here:

- Marina attendant
- Service station attendant

Some related occupations classified elsewhere:

Service station cashier - 5230

Shop sales assistant - 5223

Food service counter attendant – 5246

### **Notes**

Workers who accept payment or sell goods in shops at service stations but do not provide forecourt services such as assistance with fuel, lubricants, cleaning and maintenance are excluded from Unit group 5245, Service station attendants.

## **5246 Food service counter attendants**

Food service counter attendants serve customers at food counters and finish preparation of simple food items in restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other settings.

Tasks include -

- (a) serving food to customers at counters;
- (b) ascertaining the products desired by the customer, assisting customer in making a choice and taking orders;
- (c) cleaning, peeling, slicing and trimming foodstuffs using manual and electric appliances;
- (d) preparing simple food items and reheating prepared meals;
- (e) portioning and wrapping food or placing it directly on plates for service to patrons;
- (f) packaging take-away food;
- (g) stocking refrigerators, salad and buffet bars and keeping records of the quantities of food used;
- (h) receiving payment for food items purchased.

Examples of the occupations classified here:

- Cafeteria counter attendant
- Salad bar attendant

Some related occupations classified elsewhere:

Cook - 5120  
Kiosk salesperson - 5211  
Market salesperson - 5211  
Street stall salesperson - 5211  
Waiter - 5131  
Bartender - 5132  
Fast food preparer – 9411

### **Notes**

Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stalls of a variety of prepared meals and food items for immediate consumption are classified in unit group 5246, Food service counter attendants. Vendors in streets and public places of food and beverages for immediate consumption from pushcarts, trucks, trays or baskets are classified in unit group 5212, Street food salespersons. Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionary) from pushcarts, trucks, trays or baskets are classified in unit group 9520, Street vendors (excluding food). Workers who prepare simple food items for immediate consumption, such as hamburger cooks, but have limited direct contact with clients, are classified in unit group 9411, Fast food preparers. If adapting these categories to national circumstances please note that the aim of separately identifying vendors of food items for immediate consumption is to ensure that jobs that require skills in service, basic preparation and hygienic handling of food are identified. Food service counter attendants generally serve a wider range of more elaborate products and meals than Street food salespersons and do not generally transport or carry food on hand carts or in baskets.

## **5249 Sales workers not elsewhere classified**

This unit group includes sales workers not classified elsewhere in sub major group 52, Sales workers.

Examples of the occupations classified here:

Rental salesperson

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>52</b>	<b>Sub-major Group</b>	<b>Sales workers</b>
<b>524</b>	<b>Minor Group</b>	<b>Other sales workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5241</b>		<b>Fashion and other models</b>
	52411	Mannequin/ Model, fashion
	52412	Model, advertising
	52413	Model, artist's
	52414	Model, clothing display
<b>5242</b>		<b>Sales demonstrators</b>
	52421	Demonstrator
	52422	Sales merchandiser
	52423	Merchandiser, demonstrating
	52424	Merchandiser, sales
<b>5243</b>		<b>Door to door salespersons</b>
	52431	Door to door salesperson/ sales representative/ Rounds man, distribution (retail)
	52432	Canvasser, door-to-door/Consultant, party plan/Consultant, sales: door-to-door
	52433	Distributor( party plan/ selling door-to-door)
	52434	Host, party plan/Hostess, party plan
	52435	Salesperson( direct: door-to-door/ party plan)
<b>5244</b>		<b>Contact centre salespersons</b>
	52441	Telemarketing salesperson/ Telemarketer
	52442	Customer contact centre salesperson/ Call centre salesperson
	52443	Consultant, sales: outbound calls/Consultant, sales: /marketing Consultant, telesales: cold calling/Consultant, telesales: outbound calls
	52444	Manager, sales team: call centre/Manager, sales: call centre
	52445	Operator( call centre: cold calling/ call centre: outbound calls telephone: canvassing/ telephone: telemarketing)
	52446	Representative, telephone: canvassing for donations/Salesperson( call centre canvassing on telephone/ internet/ telemarketing/ telephone)
	52447	Seller, Ebay
	52448	Trader, Ebay
<b>5245</b>		<b>Service station attendants</b>
	52451	Attendant (petrol pump/CNG station)
	52452	Attendant, service station (automobiles)
	52453	Attendant, driveway
	52454	Attendant, marina

Unit Group	Sub-Unit Group	Description
<b>5246</b>		<b>Food service counter attendants</b>
	52461	Counterperson/ Cafeteria counter attendant
	52462	Attendant( bar: food service/ canteen: food /service) Attendant( counter: food service/ salad bar)
	52463	Salesperson( kiosk: food service/ market: food service)
<b>5249</b>		<b>Sales workers not elsewhere classified</b>
	52491	Sales workers n.e.c
	52492	Assistant( sales: car hire/ sales: rental)
	52493	Consultant( sales: car hire/ sales: rental)/Salesperson, rental/Salesperson, video rental

### 53 Personal care workers

Personal care workers provide care, supervision and assistance for children, patients and elderly, convalescent or disabled persons in institutional and residential settings.

Tasks performed by workers in this sub-major group usually include:

Assisting with mobility, washing and other personal needs; assisting children individually to learn social skills; supervising and participating in activities that enhance the child's physical, social, emotional and intellectual development in schools and preschool; observing and reporting concerns to appropriate medical or social service worker.

Occupations in this sub-major group are classified into the following minor groups:

- 531 Child care workers and teachers' aides
- 532 Personal care workers in health services

#### 531 Child care workers and teachers' aides

Child care workers and teachers' aides provide care and supervision for children in schools, residential homes and child care facilities.

Tasks performed usually include:

Assisting children individually to learn social skills; demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and preschools; assisting in preparation of materials and equipment for children's education and recreational activities before-school, after-school, during vacation and in day care centres.

Occupations in this minor group are classified into the following unit groups:

- 5311 Child care workers
- 5312 Teachers' aides

#### 5311 Child care workers

Child-care workers provide care and supervision for children in residential homes and in before-school, after-school, vacation and day care centres.

Tasks include -

- (a) assisting children to wash, dress and feed themselves;
- (b) taking children to and from school or outdoors for recreation;
- (c) playing games with children, or entertaining them by reading or storytelling;
- (d) assisting in the preparation of materials and equipment for children's education and recreational activities;
- (e) managing children's behaviour and guiding their social development;
- (f) disciplining children and recommending or initiating other measures to control behaviour, such as caring for own clothing and picking up toys and books;
- (g) observing and monitoring children's play activities;
- (h) keeping records on individual children, including daily observations and information about activities, meals served, and medications administered.

Examples of the occupations classified here:

- Baby-sitter
- Child care worker
- Creche ayah
- Family day care worker
- Nanny
- Out of school hours care worker

Some related occupations classified elsewhere:

Early childhood educator – 2342

### **5312 Teachers' aides**

Teachers' aides perform non-teaching duties to assist teaching staff, and provide care and supervision for children in schools and pre-schools.

- (a) demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and preschools;
- (b) preparing indoor and outdoor areas for learning and recreational activities;
- (c) assisting children with intellectual, physical, behavioural and other learning difficulties with their studies;
- (d) assisting children individually to learn social skills;
- (e) assisting with preparing teaching materials, and copying and collating written and printed material;
- (f) operating audio-visual equipment, computers and other teaching aides;
- (g) distributing and collecting lesson material.

Examples of the occupations classified here:

- Pre-school assistant
- Teacher's assistant

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>53</b>	<b>Sub-major Group</b>	<b>Personal care workers</b>
<b>531</b>	<b>Minor Group</b>	<b>Child care workers and teachers' aides</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5311</b>		<b>Child-care workers</b>
	53111	Nanny/ Ayah
	53112	Nursemaid
	53113	Assistant, day care: children/Babysitter/Care, child
	53114	Governess, children
	53115	Sitter, baby
	53116	Worker( child care/ family day care/ out of school hours care)
<b>5312</b>		<b>Teachers' aides</b>
	53121	Attendant/ Governess (schoolchildren)
	53122	Pre-school teacher assistant
	53123	Aide, pre-school/Aide, teacher's
	53124	Assistant, teacher's
	53125	Helper, pre-school/Helper, teacher's
	53126	Invigilator

## **532 Personal care workers in health services**

Personal care workers in health services provide personal care and assistance with mobility and activities of daily living to patients, and elderly, convalescent and disabled people in health care and residential settings.

Tasks performed usually include:

Assisting patients with mobility, personal care and communication needs; sterilising surgical and other instruments and equipment; observing and reporting concerns to the appropriate medical or social service workers, preparing patients for examination and treatment and participating in planning the care of individuals.

Occupations in this minor group are classified into the following unit groups:

- 5321 Health care assistants
- 5322 Home-based personal care workers
- 5329 Personal care workers in health services not elsewhere classified

### **5321 Health care assistants**

Health care assistants provide direct personal care and assistance with activities of daily living to patients and residents in a variety of health care settings such as hospitals, clinics, and residential nursing care facilities. They generally work in implementation of established care plans and practices, and under the direct supervision of medical, nursing or other health professionals or associate professionals.

Tasks include -

- (a) providing care, support and treatment to patients and residents of medical, rehabilitative and residential care facilities as per treatment plans established by medical, nursing and other health professionals;
- (b) assisting patients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking oral medications and changing dressings;
- (c) positioning, lifting and turning patients and transporting them in wheelchairs or on movable beds;
- (d) maintaining patients' environmental hygiene standards, such as cleaning patient rooms and changing bed-linen;
- (e) providing massage and other non-pharmacological pain relief measures, such as during pregnancy and labour
- (f) observing patients' condition, responses and behaviour and reporting changes to a health professional;

Examples of the occupations classified here:

- Birth assistant (clinic or hospital)
- Nursing aide (clinic or hospital)
- Patient care assistant
- Psychiatric aid

Some related occupations classified elsewhere:

- Nurse (professional) - 2221
- Nurse (associate professional) - 3221
- Ambulance worker - 3258
- Nursing aide (home) – 5322

#### Notes

Workers who provide personal care to residents of institutions and facilities that have permanent medical or nursing supervision (such as hospitals, rehabilitation centres, residential nursing care facilities and nursing homes) and therefore work under the direct supervision of nurses, medical doctors, or other health professionals or associate professionals are classified in Unit group 5321, Health care assistants. Workers who provide personal care to residents of independent living units, generally without permanent medical or nursing supervision, should be classified in Unit Group 5322, Home-based personal care workers. In general, workers classified in Minor group 532, Personal care workers in health services, do not perform tasks requiring extensive medical knowledge or training, such as administering medications and cleaning and dressing wounds: where tasks of this type are performed they are of a simple and routine nature.

### **5322 Home-based personal care workers**

Home-based personal care workers provide routine personal care and assistance with activities of daily living to persons who are in need of such care due to effects of ageing, illness, injury, or other physical or mental condition in private homes and other independent residential settings.

Tasks include -

- (a) assisting clients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking oral medications and changing dressings, usually as per care plans established by a health professional
- (b) maintaining records of client care, changes in condition and responses to care and treatment, and reporting concerns or providing referrals to a health or social services professional;
- (c) positioning and lifting clients with physical mobility challenges, and helping transport them in wheelchairs and motor vehicles;
- (d) providing clients and families with emotional support and information and advice on topics such as nutrition, hygiene, exercise, caring for infants, or adapting to disability or illness;

- (e) maintaining clients' environmental hygiene standards, such as changing bed linen, washing clothes and dishes, and cleaning living quarters;
- (f) providing psychological support to clients such as through conversation or reading aloud;
- (g) planning, purchasing, preparing, or serving meals to meet nutritional requirements and prescribed diets;
- (h) providing support to parents and care for newborns during the postpartum period
- (i) scheduling and accompanying clients for appointments with medical doctors and other health professionals or performing other errands.

Examples of the occupations classified here:

- Home care aide
- Home birth assistant
- Nursing aide (home)
- Personal care provider

Some related occupations classified elsewhere:

- Nurse (professional) - 2221
- Social worker (professional) - 2635
- Nurse (associate professional) - 3221
- Social worker (associate professional) - 3412
- Nursing aide (clinic or hospital) – 5321

#### Notes

Workers who provide personal care to residents of medical and health care facilities that have permanent medical or nursing supervision (such as in hospitals and nursing care homes), and therefore work under the direct supervision of health professionals or associate professionals, are classified in Unit group 5321, Health care assistants. Workers who provide personal care in independent residential settings (including retirement communities with minimal or no on-site medical or nursing supervision), are classified in Unit Group 5322, Home-based personal care workers. Home birth assistants, who provide emotional support and general care and advice to women and families during pregnancy and labour, but not delivery care to reduce health risks, are included here. Care workers who provide care and supervision for children in residential home and care centres are classified in unit group 5311, Child care workers.

### **5329 Personal care workers in health services not elsewhere classified**

This unit group covers personal care workers in health services not classified elsewhere in Minor group 532 Personal care workers in health services. For instance the group includes occupations such as Dental aid, Sterilization aid, Hospital orderly, Medical imaging assistant, and Pharmacy aid.

In such cases tasks would include -

- (a) cleaning and sterilizing surgical, dental and pharmaceutical instruments bottles, beakers and other equipment;
- (b) labelling drugs, chemicals and other pharmaceutical preparations and replenishing stock on shelves;
- (c) lifting, turning, and moving patients and transporting them in wheelchairs or on moveable beds;
- (d) preparing patients for examination or treatment;
- (e) setting up instrument trays, preparing materials, and assisting dentists or radiographers during procedures;
- (f) exposing diagnostic X-rays.

Examples of the occupations classified here:

- Dental aid
- First-aid attendant
- Hospital orderly
- Medical imaging assistant



- Pharmacy aid
- Phlebotomist
- Sterilization aid

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>53</b>	<b>Sub-major Group</b>	<b>Personal care workers</b>
<b>532</b>	<b>Minor Group</b>	<b>Personal care workers in health services</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5321</b>		<b>Health care assistants</b>
	53211	Attendant (hospital/clinic)
	53212	Aid, midwife
	53213	Aid, psychiatric
	53214	Aide, nursing: clinic/Assistant, birth: clinic or hospital/Assistant, midwifery: clinic or hospital/Assistant, patient care
	53215	Attendant, birth: clinic or hospital/Attendant, midwifery: clinic or hospital Attendant, nursing: except home
<b>5322</b>		<b>Home-based personal care workers</b>
	53221	Nursing aid/attendant (home)
	53222	Home birth assistant/Khadam
	53223	Personal care provider
	53224	Aide, home care/Assistant, birth: home/Assistant, /day care: aged or disabled Assistant, home care: aged or disabled/Assistant, residential care: aged or disabled
	53225	Attendant, midwifery: home birth/Attendant, nursing: home
	53226	Carer, home: aged or disabled persons/Carer, respite/Companion, aged care Companion, disabled
	53227	Helper, aged care/Helper, companion/Helper, home: caring for aged or infirm
	53228	Worker, home care/Worker, home support/Worker, personal care: home Worker, respite care
<b>5329</b>		<b>Personal care workers in health services not elsewhere classified</b>
	53291	Aid/ Attendant (dental)
	53292	Aid, pharmacy
	53293	Attendant, ambulance
	53294	Orderly
	53295	Aide, sterilization
	53296	Assistant, medical imaging
	53297	Attendant, first aid/ward
	53298	Phlebotomist/wards man

## **54 Protective services workers**

Protective services workers protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations.

Tasks performed by workers in this sub-major group usually include:

Preventing, fighting and extinguishing fires; rescuing people from burning buildings and accident sites and those trapped in dangerous situations; maintaining law and order, enforcing laws and regulations, patrolling public areas and arresting suspected offenders; directing traffic and assuming authority in the event of accidents; watching over and maintaining order among inmates of prisons, reformatories or penitentiaries; patrolling or monitoring premises to guard property against theft and vandalism, controlling access to establishments and maintaining order and enforcing regulations at public events and within establishments. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor group:

541 Protective services workers

### **541 Protective services workers**

Protective services workers protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations.

Tasks performed usually include:

preventing, fighting and extinguishing fires; rescuing people from burning buildings and accident sites and those trapped in dangerous situations; maintaining law and order, enforcing laws and regulations, patrolling public areas and arresting suspected offenders; directing traffic and assuming authority in the event of accidents; watching over and maintaining order among inmates of prisons, reformatories or penitentiaries; patrolling or monitoring premises to guard property against theft and vandalism, controlling access to establishments and maintaining order and enforcing regulations at public events and within establishments. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 5411 Fire-fighters
- 5412 Police officers
- 5413 Prison guards
- 5414 Security guards
- 5419 Protective services workers not elsewhere classified

#### **5411 Firefighters**

Firefighters prevent, fight and extinguish fires and assist in other emergencies, protect life and property and conduct rescue efforts.

Tasks include -

- (a) responding to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies;
- (b) controlling and extinguishing fires using manual and power equipment and firefighting chemicals;
- (c) fighting special types of fires and using special equipment in industrial establishments;
- (d) rescuing people from burning buildings and accident sites and those trapped in dangerous situations;
- (e) preventing or limiting the spread of dangerous substances in case of fires or accidents;
- (f) informing the public about fire prevention.

Examples of the occupations classified here:

- Firefighter
- Forest firefighter

Some related occupations classified elsewhere:

- Fire inspector - 3112
- Fire prevention specialist - 3112
- Fire investigator – 3119

## **5412 Police officers**

Police officers maintain law and order, patrolling public areas, enforcing laws and regulations and arresting suspected offenders.

Tasks include -

- (a) patrolling a specific area to maintain public order, respond to emergencies, protect people and property and enforce laws and regulations;
- (b) identifying, pursuing and arresting suspects and perpetrators of criminal acts;
- (c) directing traffic and assuming authority in the event of accidents;
- (d) providing emergency assistance to victims of accidents, crimes and natural disasters;

Examples of the occupations classified here:

- Constable
- Police patrol officer
- Police officer

Some related occupations classified elsewhere:

- Police chief constable - 1112
- Police commissioner - 1112
- Police inspector-general - 1112
- Police detective - 3355
- Police inspector – 3355

## **5413 Prison guards**

Prison guards watch over and maintain order among inmates of prisons, reformatories or penitentiaries.

Tasks include -

- (a) searching arriving prisoners, putting their valuables in safekeeping, escorting prisoners to cells and locking them in;
- (b) making periodic inspection tours of cells and inspecting and maintaining the security of locks, windows, doors and gates;
- (c) supervising prisoners at work, meals, or during recreation periods;
- (d) observing the conduct and behaviour of prisoners to prevent disturbances and escapes;
- (e) patrolling prison areas to prevent escape;
- (f) assisting with the implementation of rehabilitation programs;
- (g) escorting prisoners in transit and during temporary leaves;.

Examples of the occupations classified here:

- Prison guard

## **5414 Security guards**

Security guards patrol or monitor premises to guard property against theft and vandalism. They control access to establishments and maintain order and enforce regulations at public events and within establishments.

Tasks include -

- (a) patrolling premises and checking doors, windows and gates to prevent and detect signs of unauthorized entry;
- (b) controlling access to establishments, monitoring and authorizing the entrance or departure of employees and visitors, checking identification and issuing security passes;
- (c) circulating among visitors, patrons, or employees to preserve order, protect property from theft or vandalism and enforce the regulations of the establishment;
- (d) responding to alarms, investigating disturbances and contacting superiors, police or fire-fighters as appropriate;
- (e) performing security checks of passengers and luggage at airports;
- (f) picking up and ensuring the safe delivery of cash and valuables to banks, automated teller machines and retail establishments.

Examples of the occupations classified here:

- Bodyguard
- Doorkeeper
- Museum guard
- Security guard
- Security patrolman/woman
- Watchman/woman

Some related occupations classified elsewhere:

- Lifeguard - 5419
- Beach patrolman/woman – 5419

#### **5419 Protective services workers not elsewhere classified**

This unit group covers protective services workers not classified elsewhere in Minor group 541, Protective services workers. For instance, the group includes lifeguards, crossing guards and animal control officers.

Tasks include -

- (a) patrolling beaches and swimming pools to prevent accidents and to rescue bathers from drowning;
- (b) monitoring traffic flow to locate safe gaps through which pedestrians can cross streets;
- (c) responding to citizen complaints concerning stray domestic animals, livestock and wildlife, issuing warnings and citations to owners and impounding lost, homeless and dangerous animals;
- (d) patrolling an assigned area to enforce parking regulations;
- (e) directing traffic.

Examples of the occupations classified here:

- Animal control officer
- Beach patrolman/woman
- Game warden
- Crossing guard
- Lifeguard
- Traffic warden

Some related occupations classified elsewhere:

- Doorkeeper - 5414
- Museum guard - 5414
- Watchman - 5414
- Watchwoman – 5414

<b>5</b>	<b>Major Group</b>	<b>Service and sales workers</b>
<b>54</b>	<b>Sub-major Group</b>	<b>Protective services workers</b>
<b>541</b>	<b>Minor Group</b>	<b>Protective services workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>5411</b>		<b>Firefighters</b>
	54111	Fire-fighter/ Fireman/ Fire sergeant/
	54112	Fire-fighter (aircraft accidents)
	54113	Fire-fighter (forest) / Lookout man (forest fire)/ Patrolman (forest fire)
	54114	Watchman, fire
	54115	Fireman( aircraft accidents/ fighting fires/ forest)/Firewoman( aircraft accidents/ fighting fires, forest)/Salvage man, fire
<b>5412</b>		<b>Police officers</b>
	54121	Agent (traffic)/ Hawaldar/ Patrolman (police/ highway)/ Constable/police woman
	54122	Police officer (traffic)
	54123	Police force (guard)
	54124	Police officer (harbor/ river/ railway)//Officer, police: patrol/Officer, police: sergeant
	54125	Sergeant, police
<b>5413</b>		<b>Prison guards</b>
	54131	Guard (prison)
	54132	Matron/ Warden/ Gaoler (jail/ prison)
	54133	Officer, corrective services: guard
<b>5414</b>		<b>Security guards</b>
	54141	Guard (security)/ Guard (art gallery/museum/ studio/ plant protection (industrial)
	54142	Inspector/ Officer/ Sergeant/ Incharge, (security/ watch and ward)/ Supervisor (gate/guard)
	54143	Watch and ward/ Patrolman (security)
	54144	Bodyguard
	54145	Doorkeeper/ Watchman/ Concierge (hotel desk)
	54146	Watchman (railways)
	54147	Watchman (night)/Barkandaz/Keeper, gate/Munshi gate
	54148	Bouncer/Concierge, hotel/Consultant, security/Specialist, security (except computer)
<b>5419</b>		<b>Protective services workers not elsewhere classified</b>
	54191	Coastguard/ Patrolman (beach)
	54192	Lifeguard
	54193	Warden, traffic
	54194	Warden/ Inspector (game/wild life/ bird sanctuary/ fishery assistant)
	54195	Worker (protective service)
	54196	Watcher (fishery/ game)
	51197	Attendant, pool/Attendant, swimming pool/Guard, beach
		Guard, crossing/Lifesaver, surf
	51198	Officer, animal control/Officer, civil defence

## Major Group 6

### Skilled Agricultural, Forestry and Fishery Workers

Skilled agricultural, forestry and fishery workers grow and harvest field or tree and shrub crops, gather wild fruits and plants, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and exploit forests, breed or catch fish and cultivate or gather other forms of aquatic life in order to provide food, shelter and income for themselves and their households. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by skilled agricultural, forestry and fishery workers usually include: Preparing the soil; sowing, planting, spraying, fertilizing and harvesting field crops; growing fruit and other tree and shrub crops; growing garden vegetables and horticultural products; gathering wild fruits and plants; breeding, raising, tending or hunting animals mainly to obtain meat, milk, hair, fur, skin, sericulture, apianian or other products; cultivating, conserving and exploiting forests; breeding or catching fish; cultivating or gathering other forms of aquatic life; storing and carrying out some basic processing of their produce; selling their products to purchasers, marketing organizations or at markets. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 61 Market-oriented skilled agricultural workers
- 62 Market-oriented skilled forestry, fishery and hunting workers
- 63 Subsistence farmers, fishers, hunters and gatherers

#### 61 Market-oriented skilled agricultural workers

Market-oriented skilled agricultural workers plan, organize and perform farming operations to grow and harvest field or tree and shrub crops and produce a variety of animals and animal products for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks performed by workers in this sub-major group usually include: Preparing the soil; sowing, planting, spraying, fertilizing and harvesting field crops; growing fruit and other tree and shrub crops; growing garden vegetables and horticultural products; raising, breeding and tending animals mainly to obtain meat, milk, hair, fur, skin, sericultural, apianian or other products; storing and carrying out some processing of t produce; selling their products to purchasers, marketing organizations or at markets. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 611 Market gardeners and crop growers
- 612 Animal producers
- 613 Mixed crop and animal producers

#### 611 Market gardeners and crop growers

Market gardeners and crop growers plan, organize and perform operations to grow and harvest field crops, to grow fruit and other tree and shrub crops, to grow garden vegetables and medicinal and other plants, and to produce horticultural and horticultural nurseries products, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks performed usually include:

Monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly; purchasing seeds, bulbs and fertilizer; investing in land and land improvements; preparing land, sowing, planting, cultivating and harvesting various crops; tending working animals and maintaining farm buildings, machinery and equipment; producing saplings, bulbs and seeds; storing and carrying out some processing of produce; delivering or marketing farm products. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

6111	Field crop and vegetable growers
6112	Tree and shrub crop growers
6113	Gardeners, horticultural and nursery growers
6114	Mixed crop growers

### **6111 Field crop and vegetable growers**

Field crop and vegetable growers plan, organize and perform farming operations to grow and harvest various types of field crop such as wheat and other cereals, rice, beetroot, sugar-cane, ground-nuts, tobacco, reed or other field crops and potatoes, cabbages or other field vegetables, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning plants, and by setting up and operating irrigation equipment;
- (e) controlling weeds, pests and diseases, by applying herbicides and pesticides;
- (f) harvesting crops and destroying diseased or superfluous crops;
- (g) inspecting, cleaning, grading, packaging, storing and loading crops for sale or delivery to market;
- (h) tending working animals and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (k) training and supervising workers in crop production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Cereal farmer
- Cotton farmer
- Rice farmer
- Skilled farm worker (field crops)
- Sugar-cane grower

Some related occupations classified elsewhere:

- Agricultural production manager - 1311
- Crop farm labourer – 9211

## **6112 Tree and shrub crop growers**

Tree and shrub crop growers plan organize and perform farming operations to grow and harvest trees and shrubs, such as fruit and nut trees, tea and coffee bushes, grape vines, berry-bearing bushes, cocoa trees and rubber trees and to collect sap, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning trees and shrubs, and by setting up and operating irrigation equipment;
- (e) controlling weeds, pests and diseases, by applying herbicides and pesticides;
- (f) tending trees or bushes, collecting sap and harvesting crops;
- (g) inspecting, cleaning, grading, packaging, storing and loading crops for sale or delivery to market;
- (h) tending working animals and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (j) training and supervising workers in crop production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Rubber tapper
- Fruit farmer
- Rubber farmer
- Tea grower
- Viticulturist

Some related occupations classified elsewhere:

- Plantation manager - 1311
- Fruit picker – 9211

## **6113 Gardeners, horticultural and nursery growers**

Gardeners, horticultural and nursery growers plan organize and perform operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, and to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include –

- (a) monitoring market activity and conditions determining kinds and amounts of vegetables, horticultural and nursery products to be grown and planning and coordinating production accordingly;
- (b) preparing land by conditioning soil, leveling ground and installing and operating irrigation and drainage systems;
- (c) planting trees, hedges, garden plants, grass;
- (d) pruning and trimming trees, shrubs and hedges, installing plant supports and protection,



- and rolling, mowing aerating and edging lawns;
- (e) constructing features and facilities within gardens, such as paths or paved areas, walls, rockeries, garden beds ponds and water features, sheds and fences;
- (f) checking the health of plants and trees, identifying and treating weeds, pests and diseases, and applying mulch and fertilizers;
- (g) producing saplings, bulbs and seeds and raising plants from seeds or cuttings;
- (h) harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market;
- (i) maintaining buildings, greenhouses and other structures, equipment and water supply systems;
- (j) storing and carrying out some processing of produce;
- (k) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of activities and transactions;
- (l) training and supervising workers in production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Horticulturist
- Landscape gardener
- Market gardener
- Mushroom cultivator

Some related occupations classified elsewhere:

- Horticultural scientist - 2132
- Garden labourer - 9214
- Horticultural labourer – 9214

#### **6114 Mixed crop growers**

Mixed crop growers plan organize and perform farming operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, and garden, horticultural and nursery products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning crops trees and shrubs, and by setting up and operating irrigation equipment;
- (e) growing flowers and vegetables by intensive cultivation;
- (f) producing saplings, bulbs and seeds;
- (g) harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market;
- (h) tending working animals and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of activities and transactions;
- (k) training and supervising workers in production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Mixed crop farmer
- Skilled farm worker (mixed crops)

Some related occupations classified elsewhere:

- Agricultural production manager - 1311
- Plantation manager - 1311
- Crop farm labourer - 9211
- Fruit picker – 9211

**6 Major Group Skilled agricultural, forestry and fishery workers**

**61 Sub-major Group Market-oriented skilled agricultural workers**

**611 Minor Group Market gardeners and crop growers**

Unit Group	Sub-unit Group	Description
<b>6111</b>		<b>Field crop and vegetable growers</b>
	61111	Farmer/ grower, skilled {cotton, wheat, maize, sugarcane, rice, cereal, grain, field crops, tobacco ,alfalfa/ flax, groundnut, potato, soya-bean/,sugar-beet (market production)
	61112	Farmer/ grower skilled ,vegetable(market production)
	61113	Farm worker, skilled ,cotton, wheat, maize, sugarcane, rice, cereal, grain, field crops ,flax,groundnut,irrigation,jute, potato, sugar-beet (market production)
	61114	Farm worker, skilled ,vegetable (market production)
	61115	Irrigation worker, skilled(market production)
	61116	General manager, agriculture/farm(market production)
	61117	Supervisor/ Superintendent (farm) (market production)
	61118	Cropper/ Fieldman / Planter( cotton,Planter, sugar-cane, Planter, tobacco ) (market production)
<b>6112</b>		<b>Tree and shrub crop growers</b>
	61121	Farmer/grower (Shrub crop, tree crop, fruit, tea, nut, orchard, cocoa, hop Coconut, coffee, copra, rubber, vineyard, viniculture, Grape, , vine, wine ) (market production)
	61122	Farmer worker, skilled (Shrub crop, tree crop, fruit, tea, nut, orchard, cocoa, hop coffee, grove, rubber, vineyard, tea), ) (market production), <b>plantation rubber</b>
	61123	Budder-grafter/ pruner and trimmer/ tapper (fruit tree) (market production)
	61124	Grafter, fruit tree/Grafter, shrubs
	61125	Arbor culturist/Olericulturist/Planter, copra/ tea/, /Pruner, shrub: crops/ fruit trees
	61126	Tapper, maple: syrup/ pine: resin,/ rubber/ toddy(market)
	61127	Viniculturist/Winegrower
<b>6113</b>		<b>Gardeners, horticultural and nursery growers</b>
	61131	General-manager ( nursery) (market production)
	61132	Farmer/grower (nursery, bulb, seed, mushroom, spice, carnation, market gardening flower, osier, reed, rose, seeds: nursery, spices: nursery/ tulips, vegetables: nursery (market production)/ <b>farmer horticultural (market)</b>

Unit Group	Sub-unit Group	Description
<b>6114</b>	61133	Gardner/Mali (market, greenhouse, park Keeper, green gardener, landscape,greenkeeper,groundsman(market production)
	61134	Proprietor (working)/ supervisor (nursery)/ Nurseryman(market production)
	61135	Farm worker skilled (nursery, green house ,Worker, farm: skilled (mushroom)/Worker, greenhouse: skilled/Worker, market gardening: skilled (market production)
	61136	Horticultural worker /Floriculturist/Ground keeper , skilled(market production)
	61137	Contractor, gardening, Contractor, landscaping, Cultivator, mushroom
		<b>Mixed crop growers</b>
	61141	Farmer/grower (mixed crops) (market production)
	61142	Farm worker, skilled (mixed crop) (market production)

## 612 Animal producers

Animal producers plan, organize and perform farming operations to breed and raise domesticated animals, poultry, insects and non-domesticated animals for the production of meat, dairy products, honey, skins, textiles and other products or for use as working, sporting or recreational animals, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task performed usually include:

Monitoring market activity and conditions, determining kinds and amounts of products to produce, planning and coordinating production accordingly; raising, feeding and tending animals; preparing animals or animal products for market; monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain; performing duties related to animal reproduction, such as breeding, artificial insemination, and helping with animal births; renting or investing in and maintaining and cleaning buildings, machinery, equipment , and structures; storing and carrying out some processing of produce; promoting and marketing products, arranging the sale, purchase and transportation of stock, produce and supplies and maintaining and evaluating records of activities and transactions; training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Occupations in this minor group are classified into the following unit groups:

- 6121 Livestock and dairy producers
- 6122 Poultry producers
- 6123 Apiarists and Seri culturists
- 6129 Animal producers not elsewhere classified

### 6121 Livestock and dairy producers

Livestock and dairy producers plan, organize and perform farming operations to breed and raise domesticated animals (excluding poultry), such as cattle, sheep, pigs, goats, horses and camels, for the production of meat, milk and other dairy products, skins, and wool or for use as working, sporting or recreational animals for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity and conditions, determining kinds and amounts of stock to produce planning and coordinating production accordingly;
- (b) cultivating pastures and providing and monitoring fodder and water supplies to maintain appropriate nutritional levels and condition of livestock;
- (c) monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain;
- (d) grooming , marking, clipping, trimming, drenching and/or castrating animals and shearing coats to collect hair or wool;
- (e) herding livestock to pastures for grazing or to scales, sheds, vehicles, or other enclosures;
- (f) milking animals by hand or using milking machines;
- (g) mixing feed, additives, and medicines in prescribed portions and distributing or hand-feeding to animals for consumption;
- (h) performing duties related to livestock reproduction, such as breeding, artificial insemination, and helping with animal births;
- (i) maintaining and cleaning farm buildings, machinery, equipment, and structures;
- (j) slaughtering and skinning animals and preparing them for market;
- (k) storing and carrying out some processing of animal and dairy produce;
- (l) promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (m) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Cattle farmer
- Dairy farmer
- Dog breeder
- Drover
- Goat farmer
- Horse breeder
- Shearer
- Sheep farmer
- Shepherd
- Stockman/woman

Some related occupations classified elsewhere:

- Agricultural production manager - 1311
- Ranch manager – 1311

#### Notes

Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity. Those who produce and store hay and other fodder for later consumption, primarily by livestock for which they are responsible, are classified in unit group 6121, Livestock and dairy producers.

## **6122 Poultry producers**

Poultry producers plan, organize and perform farming operations to breed and raise chickens, turkeys, geese, ducks and other poultry to produce meat, eggs and breeding stock for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity, planning and coordinating production accordingly, maintaining

- and evaluating records of farming activities;
- (b) growing and purchasing feed and other supplies needed to maintain appropriate nutritional levels and condition of poultry;
- (c) monitoring and examining poultry to detect illness, injury, or disease, and to check physical condition, such as rate of weight gain, and removing weak, ill and dead poultry from flock;
- (d) mixing feed and feed additives and filling feed and water containers;
- (e) vaccinating poultry via drinking water, injection, or dusting of air;
- (f) collecting and storing eggs and packaging them for sale delivery to market;
- (g) determining sex of chicks and facilitating breeding, artificial insemination, and hatching of eggs;
- (h) renting or investing in and maintaining and cleaning farm buildings, machinery, equipment, and structures;
- (i) slaughtering and dressing poultry for sale or delivery to market;
- (j) storing and carrying out some processing of produce;
- (k) arranging the sale, purchase and transportation stock, produce and supplies;
- (l) training and supervising workers in poultry production procedures, maintenance duties, and health and safety precautions, and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Poultry breeder
- Poultry farmer
- Poultry tender

#### Notes

Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity

## 6123 Apiarists and Seri culturists

Apiarists and Seri culturists plan, organize and perform operations to breed, raise and tend insects such as honey bees, silkworms, and other species to produce honey, beeswax, silk and other products for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of insect products to produce, planning and coordinating production accordingly;
- (b) purchasing insects and growing or purchasing feed and other supplies;
- (c) breeding, raising and tending insects and collecting their products;
- (d) renting or investing in and maintaining and cleaning buildings, machinery, equipment, and structures;
- (e) storing and carrying out some processing of produce;
- (f) arranging the sale, purchase and transportation of stock, produce and supplies and maintaining and evaluating records of farming activities;
- (g) training and supervising workers in production procedures, maintenance duties, and health and safety precautions, and hiring and discharging workers and contractors.

Examples of occupations classified here:

- Apiarist
- Sericulturist

## **6129    Animal producers not elsewhere classified**

This unit group covers market-oriented animal producers not classified elsewhere in Minor group 612, Animal producers. For instance, the group includes those engaged in breeding, raising and tending non-domesticated mammals, game and other birds (except poultry), snails, snakes and other reptiles, as well as various insects and animals used for laboratory tests, for sale or delivery on a regular basis to wholesale buyers, marketing organizations, zoos and circuses, or at markets.

In such cases tasks would include –

- (a) monitoring market activity and conditions, determining kinds and amounts of products to produce, planning and coordinating production accordingly;
- (b) raising, feeding and tending animals;
- (c) killing and skinning animals, and preparing animals or animal products for market;
- (d) monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain;
- (e) performing duties related to animal reproduction, such as breeding, artificial insemination, and helping with animal births;
- (f) renting or investing in and maintaining and cleaning buildings, machinery, equipment, and structures;
- (g) slaughtering and skinning animals and preparing them for market;
- (h) storing and carrying out some processing of produce;
- (i) promoting and marketing products, arranging the sale, purchase and transportation of stock, produce and supplies and maintaining and evaluating records of activities and transactions;
- (j) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions.

Examples of the occupations classified here:

- Crocodile farmer
- Fur farmer (non-domesticated animals)
- Game bird breeder
- Ostrich farmer
- Snail breeder

Some related occupations classified elsewhere:

- Pet groomer - 5164
- Zoo keeper - 5164
- Game warden - 5419
- Poultry breeder – 6122

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>61</b>	<b>Sub-major Group</b>	<b>Market-oriented skilled agricultural workers</b>
<b>612</b>	<b>Minor Group</b>	<b>Animal producers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6121</b>	<b>Livestock and dairy producers</b>	
61211	Farmer, dairy(market production)	
61212	Manager/ superintendent ( dairy farm) (market production)	
61213	Farmer/breeder (cattle, grazer, horses, livestock, sheep, dog, astrakhan fur/pelt)/ Shepherd/ Stockman, beef cattle/Stockman, livestock/stockman, sheep/stockwoman, beef cattle/stockwoman, livestock/stockwoman, reindeer/breeder, stud/dairymaid /dairyman/drover(market production)	
61214	<b>Farmer</b> worker, skilled (cattle, livestock/ cattle: market production, cowherd: market production, fur: domestic animals( market)/ goat: market production. horse: breeding (market), horse: raising( market) livestock: market production. milk market (market), mixed-animal: market production pig: market production, ranch,stud,Goatherd,Grazier,Hand, farm: milch,Hand, farm: milking Hand, ranch,Milker,Milkmaid,Pastoralist,Producer, animals, Raiser, sheep, Rancher, (market production)	
61215	Palter (farm)/ Rancher (cattle)/ Raise (camel) ( market)	
61216	Shearer (sheep)/ Woolgrower( market)	
61217	Kennel worker, skilled)(market)	
61218	Farmer (mixed-animal husbandry)/ worker, farm: skilled (cattle)/worker, farm: skilled (dairy)/worker, farm: skilled (domestic fur-bearing animals)/worker, farm: skilled (livestock)/worker, farm: skilled (pig)worker, farm: skilled (sheep) (market production)	
61219	Farm worker, skilled(mixed-animal husbandry)(market)n.e.c.	
<b>6122</b>	<b>Poultry producers</b>	
61221	General manager (poultry) (market production)	
61222	Breeder, (poultry/ egg production) (market production)	
61223	Farmer (duck/goose/turkey/battery/ chicken/ egg production/poultry) (market)	
61224	Proprietor (working) (poultry) (market production)	
61225	Farm worker, skilled (poultry) (market production)	
61226	Hatcher-breeder, poultry(market production)	
61227	Hatchery worker, skilled (poultry) (market production)	
61228	Caponizer/Debeaker, poultry/Operator, incubator: farm/Sexer, chicken Tender, poultry(market production)	
<b>6123</b>	<b>Apiarists and sericulturists</b>	
61231	Farmer (apiary, beekeeping)/ Apiarist(market production)	
61232	Farmer (sericulture, silkworm raising) (market production)	
61233	Skilled worker (Apiary, beekeeping, Sericultural)/ Beekeeper/Sericulturist(market)	



Unit Group	Sub-unit Group	Description
<b>6129</b>		<b>Animal producers not elsewhere classified</b>
	61291	Farmer, fur (non-domesticated animals) (market production)
	61292	Farmer/breeder ( laboratory animal) (market production)
	61293	Farmer/breeder (bird, mammal, ostrich, reptile etc. deer, game bird, lion, snailcrocodile,kangaroo) (market production)
	61294	Farm worker, skilled (non-domesticated fur-bearing animals , non-domesticated animals, pelt: non-domesticated animals(market production)
	61295	Laboratory worker, skilled (animals)/ Raiser, ostrich(market production)
	61296	Worker, farm: skilled (ostrich) (market production)

### **613 Mixed crop and animal producers**

Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks performed usually include:

Monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordinating production accordingly; purchasing seeds, fertilizer, and other supplies; performing operations such as land preparation, sowing, planting, cultivating and harvesting crops; producing or buying fodder and other food supplies; breeding, raising and tending animals; killing and skinning animals, and preparing animals or animal products for market; renting or investing in and maintaining and cleaning farm buildings, machinery, equipment , and structures; storing and carrying out some processing of produce; promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions; training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Occupations in this minor group are classified into the following unit groups:

6130 Mixed crop and animal producers

#### **6130 Mixed crop and animal producers**

Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordinating production accordingly;
- purchasing seeds, fertilizer, and other supplies;
- performing operations such as land preparation, sowing, planting, cultivating and harvesting crops;
- producing or buying fodder and other food supplies;



- (e) breeding, raising and tending animals;
- (f) killing and skinning animals, and preparing animals or animal products for market;
- (g) renting or investing in and maintaining and cleaning farm buildings, machinery, equipment, and structures;
- (h) storing and carrying out some processing of produce;
- (i) promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (j) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Examples of the occupations classified here:

- Farmer (mixed farming)
- Skilled farm worker (mixed farming)

Some related occupations classified elsewhere:

- Agricultural production manager – 1311
- Plantation manager - 1311
- Mixed farm labourer – 9213

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>61</b>	<b>Sub-major Group</b>	<b>Market-oriented skilled agricultural workers</b>
<b>613</b>	<b>Minor Group</b>	<b>Mixed crop and animal producers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6130</b>		<b>Mixed crop and animal producers</b>
	61301	Farmer, mixed farming/ Farmer( livestock and crops/ mixed: market
	61302	Farm worker, skilled (mixed farming)/ Hand, farm/ Worker, farm : skilled (mixed livestock and crops) (market production)

## **62 Market-oriented skilled forestry, fishery and hunting workers**

Market-oriented skilled forestry, fishery and hunting workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests, breed and raise fish, harvest and catch fish and hunt and trap animals, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks performed by workers in this sub-major groups usually include:

Renting or investing, equipment and machinery and purchasing supplies; planning and undertaking forestry, aquaculture, fishery and hunting operations; maintaining buildings, tanks, machinery, and other equipment; delivering or marketing products; supervising and training other workers.

Occupations in this sub-major group are classified into the following minor groups:

- 621 Forestry and related workers
- 622 Fishery workers, hunters and trappers

## **621 Forestry and related workers**

Forestry and related workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.

Tasks usually include;

Assessing sites for reforestation, selecting seedlings and planting trees using manual planting tools and establishing and caring for forest stands; locating trees to be felled and estimating volume of timber; operating chainsaw and other power saws to thin young forest stands, trim, top and fell trees and saw them into logs; shaping rough wooden products from logs at felling site; stacking logs and loading them in chutes or floating them down rivers; keeping watch to detect forest fires, participating in firefighting operations complete firefighting reports and maintaining firefighting equipment; controlling weeds and undergrowth in regenerating forest stands using manual tools and chemicals; operating and maintaining a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated; collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations; training and supervising other workers in forestry procedures, including forestry labourers and plant operators.

Occupations in this minor group are classified into the following unit groups:

### **6210 Forestry and related workers**

## **6210 Forestry and related workers**

Forestry and related workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.

Tasks include -

- (a) assessing sites for reforestation, selecting seedlings and planting trees using manual planting tools and establishing and caring for forest stands;
- (b) locating trees to be felled and estimating volume of timber;
- (c) operating chainsaw and other power saws to thin young forest stands, trim, top and fell trees and saw them into logs;
- (d) shaping rough wooden products from logs at felling site;
- (e) stacking logs and loading them in chutes or floating them down rivers;
- (f) keeping watch to detect forest fires, participating in firefighting operations, completing firefighting reports and maintaining firefighting equipment;
- (g) controlling weeds and undergrowth in regenerating forest stands using manual tools and chemicals;
- (h) operating and maintaining a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated;
- (i) collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations;
- (j) training and supervising other workers in forestry procedures, including forestry labourers and plant operators.

Examples of the occupations classified here:

- Charcoal burner
- Logger
- Logging climber
- Skilled forestry worker
- Timber cruiser
- Tree feller

Some related occupations classified elsewhere:

- Silviculturist - 2132
- Forestry technician - 3143
- Tree faller operator - 8341
- Forestry labourer – 9215

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>62</b>	<b>Sub-major Group</b>	<b>Market-oriented skilled forestry, fishery and hunting workers</b>
<b>621</b>	<b>Minor Group</b>	<b>Forestry and related workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6210</b>		<b>Forestry and related workers</b>
	62101	General manager (forestry) (market)
	62102	Assembler (raft)/ Maker (log-raft)/ Marker (tree/timber) (market)
	62103	Cross-cutter, (logging, sleeper, timber (forestry), pole and pile)/ Cutter(railway tie)/ Woodcutter, forest(market)
	62104	Driver (raft, logging)/ driver (river)/ Cruiser (timber)/ Operator (wood harvesting machine) (market)
	62105	Forester/ Woodman/ Planter (forestry)/ Rider (timber)/ Afforestation
	62106	Logger/ Feller (logging)/ Scalar (log)/ Topper (logging)/ Bucker(logging/ Climber (high)/ Jogging(market)
	62107	Ranger/ Supervisor/ Patrolman (forest)/ Forest officer/ Conservator (forest)
	62108	Forestry worker, skilled (charcoal burning/ wood distillation (traditional techniques)/ Burner, charcoal/Climber, high: logging/Climber, /logging/Cutter, pole and pile Cutter, wood: forest/Lumberjack/Pruner, forestry/Pruner, tree: forestryrunner-trimmer, forestry/Stripper, cork bark/Trimmer, tree: forestry (market)

## **622 Fishery workers, hunters and trappers**

Fishery workers, hunters and trappers breed and raise fish, harvest and catch fish and hunt and trap animals, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks usually include:

Breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater; monitoring environments to ensure maintenance of optimum conditions for aquatic life; cleaning, freezing, icing or salting catch on- or offshore and preparing fish and other products for shipment; renting or investing in and maintaining buildings, tanks, machinery, fishing vessels and other equipment; preparing and repairing nets and other fishing gear and equipment; operating fishing vessels to, from and at fishing grounds; baiting, setting, operating and hauling in fishing gear; setting traps to catch mammals, birds or reptiles; delivering or marketing products; supervising and training other workers.

Occupations in this minor group are classified into the following unit groups:

- 6221 Aquaculture workers
- 6222 Inland and coastal waters fishery workers
- 6223 Deep-sea fishery workers
- 6224 Hunters and trappers

## **6221 Aquaculture workers**

Aquaculture workers breed and raise fish and cultivate mussels, oysters and other forms of aquatic life, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater;
- (b) collecting and recording growth, production, and environmental data;
- (c) conducting and supervising stock examinations in order to identify diseases or parasites;
- (d) monitoring environments to ensure maintenance of optimum conditions for aquatic life;
- (e) directing and monitoring trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques;
- (f) cleaning, freezing, icing or salting catch on- or offshore and preparing fish and other products for shipment;
- (g) maintaining buildings, tanks, machinery, boats and other equipment;
- (h) delivering or marketing products;
- (i) renting or investing in buildings, equipment and machinery and purchasing food and other supplies;
- (j) supervising and training aquaculture and fish hatchery support workers.

Examples of the occupations classified here:

- Algae cultivator
- Fish farmer
- Oyster farmer
- Pearl cultivator
- Seafood farmer
- Skilled fish farm worker
- Skilled seafood farm worker

Some related occupations classified elsewhere:

- Aquaculture production manager - 1312
- Aquaculture labourer – 9216

## **6222 Inland and coastal waters fishery workers**

Inland and coastal waters fishery workers, alone or as members of fishing-vessel crews, catch fish or gather other forms of aquatic life in inland or coastal waters, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) preparing and repairing nets and other fishing gear and equipment;
- (b) selecting area for fishing, plotting courses and computing navigational positions using compass, charts and other aids;
- (c) operating fishing vessels to, from and at fishing grounds;
- (d) baiting, setting, operating and hauling in fishing gear by hand or using hoisting equipment;
- (e) gathering various forms of aquatic life from shores and shallow waters;
- (f) maintaining engine fishing gear and other on-board equipment;
- (g) keeping records of transactions, fishing activities, weather and sea conditions and estimating costs and budgets;
- (h) sorting, and storing catch in holds with salt and ice;

- (i) removing catches from fishing equipment, measuring them to ensure compliance with legal size and returning undesirable or illegal catches to the water;
- (j) direct fishing operations, and supervising fishing crew members.

Examples of the occupations classified here:

- Coastal fishery skipper
- Fisherman/woman (coastal waters)
- Fisherwoman/man (inland waters)

Some related occupations classified elsewhere:

- Fishing operations manager - 1312
- Deep sea fisherman/woman - 6223
- Fishing labourer – 9216

## **6223 Deep-sea fishery workers**

Deep-sea fishery workers, as skippers or members of fishing vessel crews, catch deep-sea fish, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) preparing and repairing nets and other fishing gear and equipment;
- (b) commanding and operating fishing vessels to from and at deep-sea fishing grounds;
- (c) determining areas for fishing, plotting courses and computing navigational positions using compass, charts, tables and other aids;
- (d) steering vessels and operating navigational instruments and electronic fishing aids;
- (e) directing fishing operations and supervising crew activities;
- (f) recording fishing progress, activities, weather and sea conditions on ship's log;
- (g) baiting, setting and hauling in fishing gear;
- (h) cleaning, freezing, icing or salting catch on- or offshore;
- (i) selecting and training vessel crews.

Examples of the occupations classified here:

- Deep sea fisherman/woman
- Trawler skipper

Some related occupations classified elsewhere:

- Fishing operations manager - 1312
- Fisherman/woman (coastal waters) - 6222
- Fisherman/woman (inland waters) - 6222
- Coastal fishery skipper - 6222
- Fishing labourer – 9216

## **6224 Hunters and trappers**

Hunters and trappers catch and kill mammals, birds or reptiles mainly for meat, skin, feathers and other products, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks include -

- (a) setting traps to catch mammals, birds or reptiles;
- (b) killing trapped or free mammals, birds or reptiles with firearms or other weapons;
- (c) skinning and otherwise treating killed mammals, birds or reptiles to obtain desired products for sale or delivery;
- (d) delivering or selling trapped live mammals, birds or reptiles;
- (e) repairing and maintaining equipment.

Examples of the occupations classified here:

- Fur trapper
- Seal hunter
- Whale hunter

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>62</b>	<b>Sub-major Group</b>	<b>Market-oriented skilled forestry, fishery and hunting workers</b>
<b>622</b>	<b>Minor Group</b>	<b>Fishery workers, hunters and trappers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6221</b>		<b>Aquaculture workers</b>
	62211	Cultivator(algae/ pearl) (market)
	62212	Farmer(fish/ oyster/ seafood) (market)
	62213	Hatcher, fish(market)
	62214	Technician, fishing(market)
	62215	Farm worker, skilled (fish/ oyster/ seafood/ pisciculture) (market)
	62216	Hatchery worker, skilled (fish) (market)
	62217	Oyster farm worker(market)
	62218	Manager, fish farm(market)
<b>6222</b>		<b>Inland and coastal waters fishery workers</b>
	62221	General manger (fishery) (market)
	62222	Fisherman, coastal waters(market)
	62223	Sponge hooker(market)
	62224	Fisherman (inland waters) (market)
	62225	Fishery worker, skilled (coastal waters) (market)
	62226	Fishery worker, skilled (inland) (market)
	62227	Captain, fishing: coastal waters(market)
	62228	Skipper, coastal fishery (market)
<b>6223</b>		<b>Deep-sea fishery workers</b>
	62231	Fisherman, deep-sea(market)
	62232	Crewman, drifter/trawler(market)
	62233	Fishery worker, skilled (deep-sea) (market)
	62234	Captain, fishing: deep-sea(market)
	62235	Skipper, trawler(market)
<b>6224</b>		<b>Hunters and trappers</b>
	62241	Hunter(market)
	62242	Flenser/ Harpooner/ Hunter (whale)/ Crewman(whaling vessel) (market)
	62243	Stripper(blubber) (market)
	62244	Fisherman/ Hunter (seal) (market)
	62245	Trapper-hunter, fur(market)
	62246	Game beater(market)
	62247	Fisher, seal(market)

### **63 Subsistence farmers, fishers, hunters and gatherers**

Subsistence farmers, fishers, hunters and gatherers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks performed by workers in this sub-major group usually include:-

Preparing the soil; sowing, planting, tending and harvesting field crops; growing vegetables, fruit and other tree and shrub crops; gathering wild fruits, medicinal and other plants; breeding, tending and feeding animals and poultry mainly to obtain meat, eggs, milk, hair, skin or other products; hunting or

trapping animals; catching fish and gathering other forms of aquatic life; fetching water and gathering firewood; storing produce for later use and carrying out some processing of produce; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; selling or bartering some products at local markets.

Occupations in this sub-major group are classified into the following minor groups:

- 631 Subsistence crop farmers
- 632 Subsistence livestock farmers
- 633 Subsistence mixed crop and livestock farmers
- 634 Subsistence fishers, hunters, trappers and gatherers

### **631 Subsistence crop farmers**

Subsistence crop farmers grow and harvest field or tree and shrub crops, vegetables and fruit, in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks usually include;

Preparing the soil, sowing, planting, tending and harvesting field crops; growing vegetables, fruit and other tree and shrub crops; fetching water and gathering firewood; storing for later use and carrying out some processing of produce; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; selling some products at local markets.

Occupations in this minor group are classified into the following unit groups:

- 6310 Subsistence crop farmers

### **6310 Subsistence crop farmers**

Subsistence crop farmers grow and harvest field or tree and shrub crops, vegetables and fruit, in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks include -

- (a) preparing the soil, sowing, planting, tending and harvesting field crops;
- (b) growing vegetables, fruit and other tree and shrub crops;
- (c) fetching water and gathering firewood;
- (c) storing for later use and carrying out some processing of produce;
- (e) building and maintaining houses and other shelters;
- (f) making tools, clothes and utensils for use by the household;
- (g) selling some products at local markets.

Examples of the occupations classified here:

- Subsistence crop farmer

Some related occupations classified elsewhere:

- Farm labourer - 9211
- Firewood collector- 9624
- Water collector- 9624

#### **Notes**

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery laborers



<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>63</b>	<b>Sub-major Group</b>	<b>Subsistence farmers, fishers, hunters and gatherers</b>
<b>631</b>	<b>Minor Group</b>	<b>Subsistence crop farmers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6310</b>		<b>Subsistence crop farmers</b>
	63101	Farmer, subsistence farming
	63102	Farm worker, skilled (subsistence farming)
	63103	Farmer( corn/ field: crop / grain/ groundnut/ maize/ mixed crop/ rice/ wheat) (subsistence farming)
	63104	Farmer, field: vegetable (subsistence farming)/Farmer, vegetable: subsistence farming/ Grower, vegetable: subsistence
	63105	Gardener, subsistence

## **632 Subsistence livestock farmers**

Subsistence livestock farmers breed, raise and tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks performed usually include:

Cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock; monitoring and examining animals to detect illness, injury, or disease, and to check physical condition; grooming and marking animals and shearing coats to collect hair or wool; herding or leading livestock to pastures, grazing land and water supplies; raising, tending, feeding and milking animals or draining blood from them; breeding animals and helping with animal births; slaughtering and skinning animals and preparing them and their products for consumption or sale; carrying out some processing of animal products; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; fetching water and gathering firewood; buying, bartering and selling animals and some products.

Occupations in this minor group are classified into the following unit groups:

6320 Subsistence livestock farmers

## **6320 Subsistence livestock farmers**

Subsistence livestock farmers breed, raise and tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks include -

- cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock;
- monitoring and examining animals to detect illness, injury, or disease, and to check physical condition;
- grooming and marking animals and shearing coats to collect hair or wool;
- herding or leading livestock to pastures, grazing land and water supplies;
- raising, tending, feeding and milking animals or draining blood from them;
- breeding animals and helping with animal births;



- (g) slaughtering and skinning animals and preparing them and their products for consumption or sale;
- (h) carrying out some processing of animal products;
- (i) building and maintaining houses and other shelters;
- (j) making tools, clothes and utensils for use by the household;
- (k) fetching water and gathering firewood;
- (l) buying, bartering and selling animals and some products.

Examples of the occupations classified here:

- Subsistence cattle farmer

Some related occupations classified elsewhere:

- Livestock farm labourer - 9212
- Mixed crop and livestock farm labourers - 9213
- Water and firewood collector – 9624

#### Notes

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery laborers

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>63</b>	<b>Sub-major Group</b>	<b>Subsistence farmers, fishers, hunters and gatherers</b>
<b>632</b>	<b>Minor Group</b>	<b>Subsistence livestock farmers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6320</b>		<b>Subsistence livestock farmers</b>
	63201	Subsistence livestock farmer
	63202	Livestock worker, skilled (subsistence livestock farming)
	63203	Cowherd: subsistence farming
	63204	Farmer( cattle/ goat/ mixed-animal/ pig/ sheep)( subsistence farming)
	63205	Goatherd: subsistence farming/Shepherd: subsistence farming

### **633 Subsistence mixed crop and livestock farmers**

Subsistence mixed crop and livestock farmers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, and/or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks include -

- (a) preparing the soil, sowing, planting, tending and harvesting field crops;
- (b) growing vegetables, fruit and other tree and shrub crops;
- (c) gathering wild fruits, medicinal and other plants;
- (d) breeding, tending and feeding animals and poultry mainly to obtain meat, eggs, milk, hair, skin or other products;
- (e) fetching water and gathering firewood;

- (f) storing produce for later use and carrying out some processing of produce;
- (g) building and maintaining houses and other shelters;
- (h) making tools, clothes and utensils for use by the household;
- (i) selling some products at local markets.

Occupations in this minor group are classified into the following unit groups:

6330 Subsistence mixed crop and livestock farmers

### **6330 Subsistence mixed crop and livestock farmers**

Subsistence mixed crop and livestock farmers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, and/or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks include -

- (a) preparing the soil, sowing, planting, tending and harvesting field crops;
- (b) growing vegetables, fruit and other tree and shrub crops;
- (c) gathering wild fruits, medicinal and other plants;
- (d) breeding, tending and feeding animals and poultry mainly to obtain meat, eggs, milk, hair, skin or other products;
- (e) fetching water and gathering firewood;
- (f) storing produce for later use and carrying out some processing of produce;
- (g) building and maintaining houses and other shelters;
- (h) making tools, clothes and utensils for use by the household;
- (i) selling some products at local markets.

#### **Notes**

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery laborers

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>63</b>	<b>Sub-major Group</b>	<b>Subsistence farmers, fishers, hunters and gatherers</b>
<b>633</b>	<b>Minor Group</b>	<b>Subsistence mixed crop and livestock farmers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6330</b>		<b>Subsistence mixed crop and livestock farmers</b>
	63301	Subsistence Farmer, mixed crop and livestock
	63302	Worker, farm: skilled (subsistence farming)

### **634 Subsistence fishers, hunters, trappers and gatherers**

Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households.

Tasks performed usually include:

Gathering wild fruits, roots, medicinal and other plants; hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products; fetching water and gathering firewood; catching fish and

gathering other forms of aquatic life; storing or carrying out some processing of their produce; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; selling some products at local markets.

Occupations in this minor group are classified into the following unit groups:

6340 Subsistence fishers, hunters, trappers and gatherers

#### **6340 Subsistence fishers, hunters, trappers and gatherers**

Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and minimum of cash income for themselves and their households.

Task include -

- (a) gathering wild fruits, roots, medicinal and other plants;
- (b) hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products;
- (c) fetching water and gathering firewood;
- (d) catching fish and gathering other forms of aquatic life;
- (e) storing or carrying out some processing of their produce;
- (f) building and maintaining houses and other shelters;
- (g) making tools, clothes and utensils for use by the household;
- (h) selling some products at local markets.

Examples of the occupations classified here:

- Hunter-gatherer
- Subsistence collector

Some related occupations classified elsewhere:

- Subsistence crop farmer – 6310
- Subsistence livestock farmer – 6320
- Livestock farm labourer – 9212
- Water and firewood collector – 9624

<b>6</b>	<b>Major Group</b>	<b>Skilled agricultural, forestry and fishery workers</b>
<b>63</b>	<b>Sub-major Group</b>	<b>Subsistence farmers, fishers, hunters and gatherers</b>
<b>634</b>	<b>Minor Group</b>	<b>Subsistence fishers, hunters, trappers and gatherers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>6340</b>		<b>Subsistence fishers, hunters, trappers and gatherers</b>
	63401	Hunter-gatherer
	63402	Subsistence collector
	63403	Diver, subsistence
	63404	Fisher, subsistence/Fisherman, subsistence/Fisherwoman, subsistence
	63405	Gatherer, subsistence
	63406	Trapper, subsistence

## Major Group 7

### Craft and Related Trades Workers

Craft and related trades workers apply specific knowledge and skills in the fields to construct and maintain buildings, form metal, erect metal structures, set machine tools, or make, fit, maintain and repair machinery, equipment or tools, carry out printing work produce or process foodstuffs, textiles, or wooden, metal and other articles, including handicraft goods.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of all stages of the production process, the materials and tools used, and the nature and purpose of the final product. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by craft and related trades workers usually include:

Constructing, maintaining and repairing buildings and other structures; casting, welding and shaping metal; installing and erecting heavy metal structures, tackle and related equipment; making machinery, tools, equipment, and other metal articles; setting for operators, or setting and operating various machine tools; fitting, maintaining and repairing industrial machinery, including engines and vehicles, as well as electrical and electronic instruments and other equipment; making precision instruments, jewellery, household and other precious-metal articles, pottery, glass and related products; producing handicrafts; executing printing work; producing and processing foodstuffs and various articles made of wood, textiles, leather and related materials. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 71 Building and related trades workers, excluding electricians
- 72 Metal, machinery and related trades workers
- 73 Handicraft and printing workers
- 74 Electrical and electronic trades workers
- 75 Food processing, wood working, garment and other craft and related trades worker

#### 71 Building and related trades workers, excluding electricians

Building and related trades workers construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and extract and work solid minerals from underground or surface mines or quarries.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organization, the materials and tools used, and the nature and purpose of the final product.

Tasks performed by workers in this sub-major group include:

Constructing, maintaining and repairing buildings and other structures using traditional and/or modern building techniques; constructing and repairing foundations, walls and structures of brick, stone and similar materials; breaking quarried stone into slabs or blocks; cutting, shaping and finishing stone for building, ornamental, monumental and other purposes; erecting reinforced concrete frameworks and structures as well as finishing and repairing cement surfaces; cutting, shaping, assembling and maintaining wooden structures and fittings; performing miscellaneous construction and building maintenance tasks. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 711 Building frame and related trades workers
- 712 Building finishers and related trades workers
- 713 Painters, building structure cleaners and related trades workers

## **711 Building frame and related trades workers**

Building frame and related trades workers construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and perform miscellaneous construction and building maintenance tasks.

Tasks performed by workers in this minor group include:

Constructing, maintaining and repairing buildings and other structures by using traditional and/or modern building techniques; constructing and repairing foundations, walls and structures of brick, stone and similar materials; breaking quarried stone into slabs or blocks; cutting, shaping and finishing stone for building, ornamental, monumental and other purposes; erecting reinforced concrete frameworks and structures as well as finishing and repairing cement surfaces; cutting, shaping, assembling and maintaining wooden structures and fittings; performing miscellaneous construction and building maintenance tasks. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 7111 House builders
- 7112 Bricklayers and related workers
- 7113 Stonemasons, stone cutters, splitters and carvers
- 7114 Concrete placers, concrete finishers and related workers
- 7115 Carpenters and joiners
- 7119 Building frame and related trades workers not elsewhere classified

### **7111 House builders**

House builders erect, maintain and repair houses and similar small buildings using either traditional or modern techniques and materials.

Tasks include -

- (a) preparing ground for erecting building or other structures;
- (b) erecting structures to support roof, and building and covering walls with appropriate materials;
- (c) fixing rafters to roof and covering with roofing material;
- (d) leveling floor to make it smooth and serviceable;
- (e) maintaining and repairing existing structures;
- (f) arranging for specialized work such as bricklaying, painting, plumbing and electrical wiring to be done by subcontractors;
- (g) coordinating and supervising the activities of subcontractors, labourers and other workers.

Examples of the occupations classified here:

- House Builder

Some related occupations classified elsewhere:

- Construction project manager – 1323
- Project builder – 1323
- Construction supervisor – 3123

## **7112 Bricklayers and related workers**

Bricklayers and related workers lay bricks, pre-cut stones and other types of building blocks in mortar to construct and repair walls, partitions, arches and other structures.

Tasks include -

- (a) laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments;
- (b) laying footpaths, Krebs and pavements;
- (c) laying bricks or other masonry to build patios, garden walls and other decorative installations.

Examples of the occupations classified here:

- Bricklayer
- Blocklayer
- Refractory bricklayer
- Chimney builder

Some related occupations classified elsewhere:

- Stonemason -7113

## **7113 Stonemasons, stone cutters, splitters and carvers**

Stonemasons, stone cutters, splitters and carvers cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry, and carve designs and figures in stone.

Tasks include -

- (a) driving wedges into quarried stone to break it into slabs or blocks;
- (b) selecting and grading slabs and blocks of granite, marble, and other stone;
- (c) cutting, shaping and finishing building and monumental stone such as granite or marble by using hand or hand-powered tools;
- (d) making patterns and marking shapes on stone for subsequent sawing, planning, drilling and other dressing and cutting operations;
- (e) cutting and carving characters, figures or designs on stone blocks used for monuments or memorials;
- (f) setting stone in the erection of monuments and memorials;
- (g) repairing and replacing stonework on old buildings, churches and monuments;

Examples of the occupations classified here:

- Stone Carver
- Stone Cutter
- Granite Cutter

Some related occupations classified elsewhere:

- Wall and floor tiller -7122
- Machine operator (stone cutting or processing) – 8112

## **7114 Concrete placers, concrete finishers and related workers**

Concrete placers, concrete finishers and related workers erect reinforced concrete frameworks and structures, make forms for moulding concrete, reinforce concrete surfaces, cement openings in walls or casings for wells, finish and repair cement surfaces and carry out terrazzo work.

Tasks include -

- (a) constructing and repairing reinforced concrete floors, walls, tanks, silos and other concrete structures;
- (b) making shuttering or assembling prefabricated forms for moulding concrete;
- (c) cementing openings in walls or casings for wells;
- (d) finishing and smoothing surfaces of concrete structures;
- (e) applying a durable, smooth surfacing composed of cement, sand pigment and marble particles to floors, known as a terrazzo finish;

Examples of the occupations classified here:

- Cement finisher
- Concrete placer
- Terrazzo worker

Some related occupations classified elsewhere:

- Concrete finishing machine operator - 8114
- Road surface laying machinery operator- 8342

## **7115 Carpenters and joiners**

Carpenters and joiners cut, shape, assemble, erect, maintain and repair various types of structures and fittings made from wood and other materials.

Tasks include -

- (a) making, altering and repairing structural and other woodwork at a work-bench and on a construction site;
- (b) constructing, erecting and installing heavy-framed wooden structures on building sites;
- (c) fitting, assembling and altering internal and external fixtures of buildings, such as walls, doors, door and window frames, facings and panelling;
- (d) making, repairing and fitting scenic equipment for theatrical performances, motion picture or television productions;
- (e) constructing, assembling, altering and repairing wooden fixtures and fittings in train coaches, aircraft, ships, boats, floats, and other vehicles.

Examples of the occupations classified here:

- Carpenter
- Finish Carpenter
- Framer
- Joiner
- Shipwright (wood)

Some related occupations classified elsewhere:

- Cabinet maker - 7522
- Wheelwright – 7522

## **7119 Building frame and related trades workers not elsewhere classified**

This unit group covers building frame and related trades workers not classified elsewhere in Minor group 711,

Building frame and related trades workers. For instance the group includes steeplejacks, scaffolders and demolition workers.

In such cases tasks would include -

- (a) climbing and performing miscellaneous construction and building maintenance work on tall structures such as towers, chimneys and spires;

- (b) erecting temporary metal or wooden scaffolding on building sites;
- (c) demolishing buildings and other structures.

Examples of the occupations classified here:

- Skilled demolition worker
- Scaffolder
- Steeplejack

Some related occupations classified elsewhere:

- Construction labourer - 9313
- Demolition labourer- 9313

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>71</b>	<b>Sub-major Group</b>	<b>Building and related trades workers, excluding electrician</b>
<b>711</b>	<b>Minor Group</b>	<b>Building frame and related trades workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7111</b>		<b>House builders</b>
	71111	Builder, house (traditional materials)/ Erector, mud wall
	71112	Builder, house (non-traditional materials)
	71113	Erector /fixer prefabricated buildings
	71114	Repairer, building
<b>7112</b>		<b>Bricklayers and related workers</b>
	71121	Bricklayer (construction / firebrick (kiln/oven)/ chimney/ furnace lining/ refractory)/ Blocklayer
	71122	Mason/ Mistry/ Paviour/ Fixer
	71123	Builder, chimney
	71124	Layer(block/ brick/ firebrick)
	71125	Tuck pointer
<b>7113</b>		<b>Stonemasons, stone cutters, splitters and carvers</b>
	71131	Cutter/ Splitter (stone)/Cutter(granite)/Mason(stone)
	71132	Carver/ Grader/ Dresser/ Turner/Engraver/ Planer (stone)
	71133	Carver-setter/ Mason (monument)
	71134	Finisher/ Polisher (stone)/ Grinder(stone/slate)
	71135	Driller/ Sandblaster/ Sawyer/
	71136	Stonemason (construction/paving)/ Stoneworker(layout)
	71137	Blaster( sand: stonecutting)
	71138	Setter-operator, lathe: stone/Shotblaster, stonecutting/Worker, stonework: layout
<b>7114</b>		<b>Concrete placers, concrete finishers and related workers</b>
	71141	Concreter, reinforced
	71142	Fabricator/ Placer/ Finisher/ Caster / Curer/ Mixer/ Shutterer (concrete)
	71143	Bender/fixer/ Setter, steel (reinforced concrete)
	71144	Worker, Terrazzo
	71145	Worker, iron: concrete (reinforcement)



Unit Group	Sub-unit Group	Description
<b>7115</b>		<b>Carpenters and joiners</b>
	71151	Carpenter (bridge/ construction/ maintenance/ mine ) / joiner (construction)
	71152	Carpenter(stage/theatre)/ artificer
	71153	Carpenter(wharf/ ship's)
	71154	Builder(aircraft body)/ barge/boat(wood)/shipwright (wood)
	71155	Maker, mast and spar(wood)
	71156	Carpenter(finish/joiner)/ Tarkhan / joiner(aircraft,ship,banch)
	71157	Fixer(wood)/Foreman, carpenter(ship &boat)
	71158	Boatbuilder, wood/Fitter, shop/Framer/Installer, door/Installer, window: frame Joiner/Shipwright, wood/Shopfitter
<b>7119</b>		<b>Building frame and related trades workers not elsewhere classified</b>
	71191	Scaffolder / Rigger (scaffolding)/ Bracer(construction)
	71192	Shorer, construction
	71193	Steeplejack
	71194	Worker, timbering(construction)
	71195	Worker, maintenance(building)/ Repairer(building/ chimney)
	71196	Worker(demolition)/ Wrecker(building)
	71198	Erector, billboard/ Assembler, prefabricated ,building/Assembler/refabricated houses/ Installer, pool, Jack, steeple

## **712 Building finishers and related trades workers**

Building finishers and related trades workers cover, apply or install, maintain and repair roofs, floors, walls, insulation systems, glass in windows or other frames, as well as plumbing, piping and electrical systems in buildings and other structures.

Tasks performed usually include:

Covering roof frameworks with one or more kinds of material; installing parquet and other kinds of flooring or covering floors and walls with tiles or mosaic panels; applying plaster to walls and ceilings; applying insulating material to walls, floors and ceilings; cutting, fitting and setting glass in windows and similar openings; installing plumbing and pipeline systems; installing electrical wiring and related equipment. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 7121 Roofers
- 7122 Floor layers and tile setters
- 7123 Plasterers
- 7124 Insulation workers
- 7125 Glaziers
- 7126 Plumbers and pipe fitters
- 7127 Air conditioning and refrigeration mechanics

## **7121     Roofers**

Roofers build and repair roofs on all types of buildings using one or more kinds of materials.

Tasks include -

- (a) studying drawings, specifications and construction sites to determine materials required;
- (b) covering roof frameworks with slate and pre-fabricated tiles to cover pitched roofs;
- (c) laying a waterproof shield and fixing metallic or synthetic materials to a building's frame;
- (d) sizing and cutting roofing materials to fit around edges corners and protuberances such as chimney.
- (e) using natural materials such as thatching to provide roof coverings;
- (f) creating temporary structures such as scaffolding and ladders.

Examples of the occupations classified here:

- Asphalt Roofer
- Metal Roofer
- Slate Roofer
- Tile Roofer
- Roof fixer
- Thatcher

## **7122     Floor layers and tile setters**

Floor layers and tile setters install, maintain and repair flooring, and cover floors, walls and other surfaces with

tiles or mosaic panels for decorative or other purposes.

Tasks include -

- (a) preparing floor areas for covering with a variety of materials;
- (b) assembling carpet, tiles or other materials and laying them on floors according to design and other specifications;
- (c) preparing wall areas for covering with tiles or other materials for decorative or other purposes such as acoustic insulation;
- (d) setting tiles and constructing and laying mosaic panels to walls, floors and other surfaces.

Examples of the occupations classified here:

- Parquetry worker
- Marble setter
- Tile setter
- Carpet layer

## **7123     Plasterers**

Plasterers install, maintain and repair plasterboard in buildings, and apply decorative and protective coverings of plaster, cement and similar material to the interiors and exteriors of structures.

Tasks include -

- (a) applying one or more coats of plaster to interior walls and ceilings of buildings to produce finished surface;
- (b) measuring, marking and installing ornamental plaster panels, and casting and trimming ornamental plaster cornices;
- (c) applying protective and decorative covering of cement, plaster and similar materials to exterior building surfaces;
- (d) making and installing decorative plaster fixtures of fibrous plaster.

Examples of the occupations classified here:

- Plasterer
- Ornamental Plasterer
- Stucco Plasterer
- Fibrous Plasterer
- Solid Plasterer

## **7124 Insulation workers**

Insulation workers apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment.

Tasks include -

- (a) cutting insulation material by size and shape;
- (b) applying slabs and sheets of insulating or sound-absorbing materials to walls, floors and ceilings of buildings;
- (c) blow and pack insulating or sound-absorbing materials into cavities between walls, floors and ceilings of buildings with power-driven machines;
- (d) examining plans, specifications and work sites to determine the type, quality and quantity of insulation material required;
- (e) applying insulating materials to exposed surfaces of equipment such as boilers, pipes and tanks;
- (f) insulating refrigeration and air-conditioning equipment;

Examples of the occupations classified here:

- Insulation worker
- Acoustic insulation worker
- Boiler and pipe Insulation worker
- Refrigeration and air-conditioning equipment Insulation worker
- Insulation Installer

## **7125 Glaziers**

Glaziers measure, cut, finish, fit and install flat glass and mirrors.

Tasks include -

- (a) selecting the type of glass to be used, cutting to right size and shape and installing in windows, doors, showers and partitions of buildings;
- (b) installing glass and mirrors in skylights, display cases, interior walls and ceilings;
- (c) installing or replacing windscreens in vehicles or boats;
- (d) creating decorative glass features such as glass walls, staircases, balustrades and stained-glass windows.

Examples of the occupations classified here:

- Autoglazier
- Glazier
- Roofing glazier
- Vehicle glazier

Some related occupations classified elsewhere:

- Glass cutter -7315
- Glass finisher -7315

## **7126 Plumbers and pipe fitters**

Plumbers and pipe fitters assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.

Tasks include -

- (a) measuring, cutting, threading, bending, jointing, assembling, installing, maintaining and repairing pipes, fittings and fixtures of drainage, heating, water supply and sewerage systems;
- (b) installing gas appliances, dishwashers and water heaters, sinks and toilets using hand and power tools;
- (c) laying clay, concrete or cast-iron pipes in ditches to form sewers, drains or water mains, or for other purposes;
- (d) inspecting, examining and testing installed systems and pipes, using pressure gauge, hydrostatic testing, observation or other methods.

Examples of the occupations classified here:

- Pipe fitter
- Pipe layer
- Plumber
- Drain technician

Some related occupations classified elsewhere:

- Air conditioning and refrigeration mechanics – 7126

## **7127 Air conditioning and refrigeration mechanics**

Air conditioning and refrigeration mechanics assemble, install, maintain and repair air conditioning and refrigeration systems and equipment.

Tasks include -

- (a) interpreting blueprints, drawings or other specifications;
- (b) assembling, installing and repairing components for air conditioning and refrigeration systems;
- (c) connecting piping and equipment by bolting, riveting, welding or brazing;
- (d) testing systems, diagnosing faults and performing routine maintenance or servicing.

Examples of the occupations classified here:

- Air conditioning equipment mechanic
- Refrigeration mechanic

Some related occupations classified elsewhere:

- Ventilation pipe fitter - 7126
- Plumbers and pipe fitters – 7126

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>71</b>	<b>Sub-major Group</b>	<b>Building and related trades workers, excluding electricians</b>
<b>712</b>	<b>Minor Group</b>	<b>Building finishers and related trades workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7121</b>		<b>Roofers</b>
	71211	Roofer(asphalt/ composite materials)
	71212	Roofer(metal)
	71213	Roofer (slate/ tile)
	71214	Roofer (wood-shingle)
	71215	Thatcher
	71216	Fixer, roof
	71217	Tiller, roof
<b>7122</b>		<b>Floor layers and tile setters</b>
	71221	Layer/ Setter/ Tiller (floor/wall)
	71222	Cutter-setter (mosaic/ marble/ rubble stone)
	71223	Layer, floor (parquetry/ wood block)
	71224	Layer, carpet/ composition tile
	71225	Setter, marble/ tile
	71226	Worker, parquetry
<b>7123</b>		<b>Plasterers</b>
	71231	Plasterer/Solid Plasterer/ Lather (plastering)
	71232	Plasterer(ornamental/ fibrous sheet)
	71233	Plasterer/ Mason (stucco)
	71234	Fixer, plasterboard
	71235	Installer, plasterboard
	71236	Plasterer, plasterboard
<b>7124</b>		<b>Insulation workers</b>
	71241	Insulator worker(acoustical)
	71242	Insulator worker(building)
	71243	Insulator worker/ Lager(boiler and pipe)
	71244	Insulator worker (refrigeration and air-conditioning equipment)
	71245	Installer( insulation/sound-proofing)
	71246	Worker( insulation/ insulation: sound-proofing)
<b>7125</b>		<b>Glaziers</b>
	71251	Fitter/ Fixer, (plate-glass/ lead-Light)
	71252	Glazier (ally type of glass)
	71253	Installer, glass (vehicles)
	71254	Setter/fixer, glass (buildings)
	71255	Setter, artistic (glass)
	71256	Autoglazier
	71257	Installer( glazing/ window: glazing)
	71258	Repairer, windscreen

Unit Group	Sub-unit Group	Description
<b>7126</b>		<b>Plumbers and pipe fitters</b>
	71261	Plumber (any type)/ Foreman(plumber)
	71262	Foreman, pipelines
	71263	Pipe-fitter (aircraft/ marine)
	71264	Pipe-fitter(gas/water/steam/ventilation/sewerage) (except electrical)
	71265	Back-up man/ Clamp man (pipeline construction)
	71266	Digger/ Sinker (well)
	71267	Layer-jointer(mains pipes)/ Worker(pipe line)/Layer, drain
	71268	Fitter, duct/Fixer, duct/Gasfitter/Installer, drain/Installer, duct/Installer, septic tank Jointer, pipe-laying/Technician, drain
<b>7127</b>		<b>Air conditioning and refrigeration mechanics</b>
	71271	Mechanic (air conditioning equipment)
	71272	Mechanic (refrigeration)
	71273	Erector, refrigeration and air conditioning equipment
	71274	Installer, refrigeration and air conditioning equipment

### **713 Painters, building structure cleaners and related trades workers**

Painters, building structure cleaners and related trades workers prepare surfaces and apply paint and similar materials to buildings and other structures, vehicles or various manufactured articles. They cover interior walls and ceilings with wallpaper, clean chimneys and exterior surfaces of buildings and other structures.

Tasks performed usually include:

Preparing surfaces and applying paint and similar materials to buildings and other structures; applying paint or varnish to vehicles or various manufactured articles, usually with a hand-spraying device; covering interior walls and ceilings with wallpaper, silk or other fabrics; cleaning chimneys; cleaning exterior surfaces of buildings and other structures. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 7131 Painters and related workers
- 7132 Spray painters and varnishers
- 7133 Building structure cleaners

#### **7131 Painters and related workers**

Painters and related workers prepare surfaces of buildings and other structures for painting, apply protective and decorative coats of paint or similar materials, or cover interior walls and ceilings of buildings with wallpaper or other finishes.

Tasks include -

- (a) cleaning and preparing walls and other surfaces of buildings for painting or wallpapering;
- (b) selecting and preparing paints to required colours by mixing pigments and additives;
- (c) applying or spraying paint, varnish, and similar materials to surfaces, fixtures and fittings of buildings;

- (d) measuring and hanging wallpaper or other fabrics on interior walls and ceilings;
- (e) applying paints, varnishes and stains to surfaces using brushes, rollers and sprays.

Examples of the occupations classified here:

- Building painter
- Paperhanger

## **7132 Spray painters and varnishers**

Spray painters and varnishers operate spray painting and varnishing equipment to apply protective coatings to manufactured items or structures.

Tasks include -

- (a) preparing surfaces to be coated using a variety of methods to remove grease, dirt and rust;
- (b) painting cars, buses, trucks and other vehicles, and applying varnish and other protective coatings;
- (c) applying paint as well as protective coatings of enamel or varnish on metal, wooden and other manufactured products, usually with a hand-spraying device.

Examples of the occupations classified here:

- Manufactured articles painter
- Vehicle painter
- Varnisher

Some related occupations classified elsewhere:

- Metal painting machine operator -8122
- Wood painting machine operator -7521
- Building painter - 7131
- Decorative painter- 7131
- Signwriter- 7316

## **7133 Building structure cleaners**

Building structure cleaners clean exterior surfaces of buildings and other structures, and remove soot from chimneys.

Tasks include -

- (a) cleaning exterior surfaces of stone, brick, metal or similar materials by means of chemicals, or a jet of steam or sand applied under high pressure;
- (b) removing soot from flues, chimneys and connecting pipes;
- (c) removing asbestos, mould and fire damaged surfaces from buildings.

Examples of the occupations classified here:

- Chimney sweep
- Building exteriors cleaner
- Sandblaster (building exteriors)

Some related occupations classified elsewhere:

- Graffiti cleaner - 9129
- Water blaster – 9129

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>71</b>	<b>Sub-major Group</b>	<b>Building and related trades workers, excluding electricians</b>
<b>713</b>	<b>Minor Group</b>	<b>Painters, building structure cleaners and related trades workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7131</b>		<b>Painters and related workers</b>
	71311	Painter(building/house/construction)/ Whitewasher
	71312	Painter(structural steel)
	71313	Painter railway coaches and wagons
	71314	Painter(set/stage)
	71315	Painter-decorator buildings (wall carpeting/wall covering/wallpapering)
	71316	Painter-decorator(ship interiors/ship's hull)
	71317	Hanger, wallpaper
	71318	Mixer, paint/Painter, brush: construction/Painter, motion picture set/Painter, outside: construction/Painter, stage scenery/Paperhanger/Spray-painter, construction
<b>7132</b>		<b>Spray painters and varnishers</b>
	71321	Varnisher/ Lacquerer (vehicle/metal)/ Master (varnish)
	71322	Japanner (painter)/ Enameller/ Painter (Ferro)
	71323	Painter, automobile (repair)
	71324	Painter, hand-dip (except glass and ceramics)
	71325	Painter, retoucher (manufacturing)
	71326	Painter (spray), metal
	71327	Marker, highway lane/ Painter, bursh/ spray(construction)
	71328	Sprayer, metal/Spray-painter, manufactured articles/Varnisher, manufactured articles
<b>7133</b>		<b>Building structure cleaners</b>
	71331	Cleaner/ Sweep(chimney/flue)
	71332	Exterminator, rodent
	71333	Cleaner/ Sandblaster (building exteriors)

## **72 Metal, machinery and related trades workers**

Metal, machinery and related trades workers cast, weld, forge and, by other methods, form metal, erect, maintain and repair heavy metal structures, engage in machine-tool setting as well as in fitting, maintaining and repairing machinery, including engines, vehicles, or they produce tools and various non-precious-metal articles.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organization, the materials and tools used, and the nature and purpose of the final product

Tasks performed by workers in this sub-major group usually include:

Making moulds and cores for casting metal; casting, welding and shaping metal; installing, erecting, maintaining and repairing heavy metal structures, tackle and related equipment; forging and forming steel and other non-precious metals to make and repair machinery, tools, equipment and other articles; setting for operators or setting and operating various machine tools; fitting, maintaining and repairing



industrial machinery, including engines and vehicles. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 721 Sheet and structural metal workers, moulders and welders, and related workers
- 722 Blacksmiths, toolmakers and related trades workers
- 723 Machinery mechanics and repairers

## **721 Sheet and structural metal workers, moulders and welders, and related workers**

Sheet and structural metal workers, moulders and welders, and related workers, make moulds and cores for casting metal, weld and cut metal parts, make and repair articles of sheet metal, and install, erect, maintain and repair heavy metal structures, tackle, cable-cars and related equipment.

Tasks performed usually include:

Making moulds and cores for casting metal; casting, welding and shaping metal parts; making and repairing articles of sheet metal such as sheet steel, copper, tin, or brass; installing, erecting, maintaining and repairing heavy metal structures, as well as tackle, cable cars and related equipment.

Occupations in this minor group are classified into the following unit groups:

- 7211 Metal moulders and core makers
- 7212 Welders and flame cutters
- 7213 Sheet-metal workers
- 7214 Structural-metal preparers and erectors
- 7215 Riggers and cable splicers

### **7211 Metal moulders and core makers**

Metal moulders and core makers make moulds and cores for casting metal.

Tasks include -

- (a) making moulds by hand or using auxiliary machines on a bench for small metal castings, on the foundry floor, or in a pit for large castings;
- (b) making cores for use in metal moulds;
- (c) cleaning and smoothing moulds, core boxes, and repairing surface imperfections;
- (d) moving and positioning work pieces such as mould sections, patterns, and bottom boards, using cranes, or signalling others to move work pieces;
- (e) positioning patterns inside mould sections and clamping sections together;
- (f) cutting spouts, runner holes and sprue holes into moulds;
- (g) lifting upper mould sections from lower sections and remove moulded patterns.

Examples of the occupations classified here:

- Coremaker
- Metal casting moulder

## **7212 Welders and flame cutters**

Welders and flame cutters weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.

Tasks include -

- (a) welding metal parts using gas flame, or an electric arc, thermite compound or other methods;
- (b) operating resistance-welding machines;
- (c) using blowtorch to make and repair lead linings, pipes, floors and other lead fixtures;
- (d) brazing metal parts together;
- (e) cutting metal pieces using gas flame or an electric arc;
- (f) joining metal parts by hand soldering;
- (g) monitoring the fitting, burning, and welding processes to avoid overheating of parts or warping, shrinking, distortion, or expansion of material;
- (h) examining work pieces for defects and measuring work pieces with straight edges or templates to ensure conformance with specifications.

Examples of the occupations classified here:

- Brazier
- Flame cutter
- Welder

## **7213 Sheet metal workers**

Sheet metal workers make, install and repair articles and parts of articles made out of sheet metal such as sheet steel, copper, tin, brass, aluminum, zinc or galvanized iron.

Tasks include -

- (a) marking sheet metal for cutting and shaping;
- (b) making and repairing household utensils and other articles in tin, copper and light alloys, or ornamental articles and fittings;
- (c) making and repairing boilers, tanks, vats and similar containers;
- (d) installing and repairing sheet-metal parts of vehicles and aircraft;
- (e) converting blueprints into shop drawings to be followed in the construction and assembly of sheet metal products;
- (f) determining project requirements, including scope, assembly sequences, and required methods and materials, according to blueprints, drawings, and written or verbal instructions;
- (g) inspecting product quality and installation to ensure conformance to specifications.

Examples of the occupations classified here:

- Boilersmith
- Coppersmith
- Sheet-metal worker
- Tinsmith

## **7214 Structural metal preparers and erectors**

Structural metal preparers and erectors assemble, erect and dismantle structural metal frames of buildings and other structures.

Tasks include -

- (a) marking metal framework as a guide when drilling, cutting, and shaping them for use in buildings, ships and other structures;
- (b) drilling, cutting and shaping structural steel in a workshop;
- (c) erecting steel framework for buildings, bridges and other constructions;
- (d) assembling and erecting the framework and other metal parts of ships' structures;
- (e) shaping and fitting structural-steel plates of ships under construction or repair;
- (f) riveting structural-metal members by hand, machine or pneumatic riveter.

Examples of the occupations classified here:

- Erector, structural metal
- Preparer, structural metal
- Riveter

Some related occupations classified elsewhere:

- Rivet production machine operator-7223

## **7215 Riggers and cable splicers**

Riggers and cable splicers assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures

Tasks include -

- (a) estimating the size, shape and weight of objects to be moved and deciding on the type of equipment to move them;
- (b) installing and repairing cables, ropes, wires, pulleys and other tackle;
- (c) joining, repairing and fitting attachments to wires, ropes and cables;
- (d) working as member of crew erecting and repairing derricks for drilling water, gas- and oil-wells;
- (e) lifting and mounting scenery, lighting and other equipment in theatres and on film sets;
- (f) installing and maintaining communication towers, aerial cableways, funicular railways, ski lifts and similar infrastructure.

Examples of the occupations classified here:

- Rigger
- Ship rigger
- Cable and rope splicer
- Tower rigger
- Theatrical rigger

Some related occupations classified elsewhere:

- Splicing/cable and rope machine operator – 8189
- Crane, hoist and related plant operators – 8343

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>72</b>	<b>Sub-major Group</b>	<b>Metal, machinery and related trades workers</b>
<b>721</b>	<b>Minor Group</b>	<b>Sheet and structural metal workers, molders and welders, and related workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7211</b>	<b>Metal moulders and coremakers</b>	
	72111	Fettler/ Fitter, box (moulding)/ Gauge man(moulding)/ Ladler(metal)/ Foreman, (moulding)/ Moulder(metal castings)
	72112	Machine-operator, rodcasting (continuous(non-ferrous metalboring)
	72113	Machine man, sand conditioning
	72114	Moulder, floor and pit(metal casting)
	72115	Pickler/ Pokerman/ Rammer/ Operator(rumbler)
	72116	Caster(metal)/ Pourer(metal)/ Tapper man/ Teemer (metal casting)
	72117	Core maker, metal/ Assistant ,tapper(metal casting)
	72118	Operator( machine: core-blowing/ machine: coremaking (metal) machine: coremaking (tube))
<b>7212</b>	<b>Welders and flame cutters</b>	
	72121	Welder (acetylene/ boiler making/ electric/ gas/ thermite/ any type)/ Foreman, welding (general)
	72122	Brazier (any type)
	72123	Flamecutter/ Burner (lead)/ Foreman (lead burner)
	72124	Solderer (any type)/ Setter-operator, soldering (metal)/ Welder,
	72125	Cutter, flame
	72126	Operator(machine: welding (metal) / machine: wire goods production)
	72127	Setter-operator, soldering: jewellery/Solderer
<b>7213</b>	<b>Sheet metal workers</b>	
	72131	Marker/cutter /foreman ,/ Worker (aircraft/ furniture/ household articles/ instruments/ornamental/vehicle) ( sheet-metal)
	72132	Foreman/plater/ repairman (boiler maker)
	72133	Smith(boiler/ copper/ tin)
	72134	Beater/ denter (sheet metal/vehicle/aircraft)/ Bodybuilder, vehicle: metal
	72135	Boilermaker/Builder, body: vehicle (metal)/Maker, boiler/Panelbeater
<b>7214</b>	<b>Structural metal preparers and erectors</b>	
	72141	Erector(derrick/ constructional steel/ structural metal/ ship beam and frame)
	72142	Loftsman/ Maker (structural metal)
	72143	Bender/turner, plate (metal)/ (ship frame)
	72144	Worker, structural steel (workshop)
	72145	Shipwright(metal)/ Helper(ship plater's)
	72146	Caulker/ Puncher/ Holder up/Platership ,/ Riveter (hydraulic/ pneumatic/ portable pinch/ aircraft repairing)
	72147	Preparer, structural: metal

Unit Group	Sub-unit Group	Description
<b>7215</b>		<b>Riggers and cable splicers</b>
	72151	Rigger (aircraft/ ship / hoisting equipment (construction)/ logging/ oil and gas well
	72152	Cutter thread// Splicer (cable and rope)
	72153	Worker, cable (bridge)
	72154	Spinner/squeezer, cable/wire
	72155	Grip
	72156	Rigger, theatrical/Rigger, tower /Squeezer, cable/wire
	72157	Jugalie,rig(oil)/Rigman,oil/Stagehand

## **722 Blacksmiths, toolmakers and related trades workers**

Blacksmiths, toolmakers and related trades workers, hammer and forge bars, rods or ingots of iron, steel and other metals to make and repair various kinds of tools, equipment and other articles, set machine tools for operators or set and operate various machine tools, and polish and sharpen surfaces.

Tasks performed usually include:

Hammering and forging iron, steel and other metals to make and repair various kinds of tools, equipment and other articles; setting machine tools for operators or setting and operating various machine tools working to fine tolerances; polishing and sharpening metal surfaces and tools.

Occupations in this minor group are classified into the following unit groups:

- 7221 Blacksmiths, hammersmiths and forging press workers
- 7222 Toolmakers and related workers
- 7223 Metal working machine tool setters and operators
- 7224 Metal polishers, wheel grinders and tool sharpeners

### **7221 Blacksmiths, hammersmiths and forging press workers**

Blacksmiths, hammersmiths and forging press workers hammer and forge bars, rods, ingots and plates of iron, steel or other metals, and draw wire to make and repair various kinds of tools, metal articles, pieces of equipment, and agricultural and related implements.

Tasks include -

- (a) heating metal in forge furnace and manufacturing and repairing articles by drawing, bending,
- (b) cutting, hammering metal on an anvil, punching, shearing, joining and hardening or tempering;
- (c) shaping heated metal into forgings on power hammer equipped with open dies;
- (d) operating closed-die drop hammer to forge metal articles;
- (e) operating a power-press machine equipped with closed dies to forge metal articles;
- (f) drawing wire;
- (g) reading work orders or blueprints to determine specified tolerances and sequences of operations for machine setup;
- (h) measuring and inspecting machine parts to ensure conformance to product specifications.

Examples of the occupations classified here:

- Blacksmith
- Drop-hammer worker
- Forging press worker
- Hammersmith

Some related occupations classified elsewhere:

- Casting machine operator-7223
- Machine-tool machine operator-7223

## **7222 Toolmakers and related workers**

Toolmakers and related workers make and repair custom made and specialized tools, sports guns, locks, dies, patterns machinery components and other metal articles using hand and machine tools to work metal to fine tolerances.

Tasks include -

- (a) reading and interpreting engineering drawings and specifications of tools, dies, prototypes or models;
- (b) preparing templates and sketches, and determining work processes;
- (c) visualizing and computing dimensions, sizes, shapes, and tolerances of assemblies, based on specifications;
- (d) positioning, securing and measuring metal stock or castings to lay out for machining;
- (e) setting up, operating and maintaining conventional and computer numerically controlled machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape work piece to prescribed dimensions and finish;
- (f) fitting and assembling parts to make and repair jigs, fixtures and gauges;
- (g) repairing and modifying sports guns and other small arms;
- (h) making, fitting, assembling, repairing and installing lock parts and locks;
- (i) making and repairing metal patterns for preparation of foundry moulds;
- (j) laying out lines and reference points on metal stock to guide other workers who cut, turn, mill, grind or otherwise shape metal;
- (k) verifying dimensions, alignments, and clearances of finished parts for conformance to specifications, using precision measuring instruments and testing completed items for proper operation.

Examples of the occupations classified here:

- Die maker
- Gunsmith
- Jig maker
- Locksmith
- Patternmaker
- Toolmaker

Some related occupations classified elsewhere:

- Tool production machine operator – 7223

## **7223 Metal working machine tool setters and operators**

Metal working machine tool setters and operators set and/or operate, various machine tools working to fine tolerances.

Tasks include -

- (a) setting one or more types of machine tool for production of metal articles in standardised series;

- (b) operating and monitoring metalworking machines, such as lathes, milling, planning, boring, drilling, grinding or honing machines, including multi-purpose numerically controlled metalworking machines;
- (c) performing similar tasks when machining plastics and other metal substitutes;
- (d) observing machine operations to detect work piece defects or machine malfunctions, adjusting machines as necessary;
- (e) inspecting work pieces for defects, and measuring work pieces to determine accuracy of machine operation, using rules, templates, or other measuring instruments;
- (f) changing worn machine accessories, such as cutting tools and brushes, using hand tools.

Examples of the occupations classified here:

- Boring machine operator
- Machine tool setter
- Machine tool operator
- Machine tool setter-operator
- Metal turner

## **7224 Metal polishers, wheel grinders and tool sharpeners**

Metal polishers, wheel grinders and tool sharpeners polish and grind metal surfaces and sharpen tools.

Tasks include -

- (a) operating fixed or portable buffing and polishing machines;
- (b) sharpening cutting tools and instruments using grinding wheels or mechanically operated grinding machines;
- (c) repairing, adjusting and sharpening saw blades and metal teeth of cylinders in textile carding machines;
- (d) dressing grinding wheels, according to specifications;
- (e) monitoring machine operations to determine whether adjustments are necessary; stop machines when problems occur;
- (f) inspecting, feeling, and measuring work pieces to ensure that surfaces and dimensions meet specifications;
- (h) selecting and mounting grinding wheels on machines, according to specifications, using hand tools and applying knowledge of abrasives and grinding procedures.

Examples of the occupations classified here:

- Metal finisher
- Tool grinder
- Metal polisher
- Knife sharpener

Some related occupations classified elsewhere:

- Metal finishing machine operator - 8122
- Metal polishing machine operator – 8122

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>72</b>	<b>Sub-major Group</b>	<b>Metal, machinery and related trades workers</b>
<b>722</b>	<b>Minor Group</b>	<b>Blacksmiths, toolmakers and related trades workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7221</b>		<b>Blacksmiths, hammersmiths and forging press workers</b>
	72211	Blacksmith/ Farrier/ Mistry, forging (steam hammer)/ Nal bund/ Ghange man, railway
	72212	Forger / Operator/Driver(drop-hammer /forge hammer/ forging-press)
	72213	Hammersmith/ Smith(spring/ knife/ tool/ bulldozer)
	72214	Caster, dye-casting (metal)/ Drawer(wire)/ Former, metal (manual)
	72215	Foreman(die casting)/ Foreman(wire drawer)/Former, pig machine (iron and steel)
	72216	Forger, drop
	72217	Operator, press: forging/Operator, press: metal (forging)
	72218	Smith, anvil/Worker, forging press
<b>7222</b>		<b>Toolmakers and related workers</b>
	72221	Toolmaker / Maker(tool and die)/ Maker(jig/gauge)
	72222	Maker, die (jewellery/ stamping/ wire drawing/ tap-die)
	72223	Maker, template (plastics)
	72224	Marker(metal)/ Pattern-maker (metal foundry)/ Sinker(die)
	72225	Armourer/ Artificer, ordinance(firearms)/ Gunsmith/ Locksmith
	72226	Finisher, die/Jigmaker
	72227	Maker, pattern/Maker, press tool
<b>7223</b>		<b>Metal working machine tool setters and operators</b>
	72231	Setter (capstan-lathe/ machine tool/ metalworking machine)
	72232	Setter-operator/ Machine tool operator (boring/ drilling/ cutting/ die-sinking)
	72233	Setter-operator/ Machine tool operator (extruding/ grinding/ honing/ lapping/ boiling/ punching/ spinning/ cutting/ wire production/ minting) machine
	72234	Setter-operator/ Machine tool operator (lathe/milling/engine-lathe/turret-lathe/ buffing/ armature production/ precision-grinding )( machine ,metalworking)
	72235	Setter-operator/ Machine tool operator (planing/ reaming/ routing/ shaping/ numerical control/ toy production/ sawing) machine (metalworking)
	72236	Borer/ driller (metal)
	72237	Spinner (metal)



Unit Group	Sub-unit Group	Description
	72238	Driller, metal/Foreman, machine shop/Foreman, machine tool operator/Former, metal (mechanical)/Header, bolt/Honer, cylinder/Lathe-operator, capstan/centre (metalworking)/ Machine –operator{( moulding /jarring/jolting/ toy production (metal)/ hit (metal)/ minting (metal)/ milling (metal)/commutator production/machine tool/shearing (metal)/,tool production/ Internal grinding (metal working)/ armature production/ automatic transfer (components)/ automatic transfer (metalworking)/ bending (metal)/ boiler production/ boring (horizontal (metalworking))/ boring (jig)/ boring (metal)/ buffing (metal)/ burnishing (metal)/ cable production/ clock production/ core making (metal/tube)/ cutting (metal electric are)/ cutting (metal)/ drilling (horizontal (metalworking)/ drilling metal)/ engraving (metal)/etching (metal)/ flamecutting (metal)/ gear-cutting (metal working)/ grinding ((machine)-tool)/ grinding (external (metal working))/ grinding (metal)/ jewellery production/ lapping (nictal)/ lint (metal)/ liotting (metal)/ needle production /nut production (metal)/ pipe production/ planning (metal)/ precision grinding (metal)/ reaming (metal)/ rivet production/ riveting/ sawing (metal)/ screw-cutting (metal working)/ shaping (metal)/ sharpening (metal)/ spinning (metal)/ sports equipment (metal)/ watch production/ welding (metal)/ wire goods production/ wiring ,electric){ Machinist, CNC/Machinist, metal/ Operator, power-shear/ grinder (surface tools)/ lathe: centre (metal working)// machine: forming (metal)/machine: moulding (metal) / router (metal working)}/Press-operator, metal (except forging)/ punching (metal)/ stamping (metal)
<b>7224</b>		<b>Metal polishers, wheel grinders and tool sharpeners</b>
	72241	Grinder (metal/ textile carding machine)/ wheel- (metal)
	72242	Filer-hand/finisher (tools/ cutting tools)
	72243	Polisher/buffer/burnisher/ Bluer(metal)
	72244	Finisher(cast metal articles)
	72245	Sharpener/degreaser (metal) (cutting instruments)/ Cutter(gear)
	72246	Cleaner, metal/Grinder, textile carding machine/Grinder, tool/Polisher, metal
	72247	Doctor, saw/Repairer, saw/Sharpener( knife/ saw/ tool)

## 723 Machinery mechanics and repairers

Machinery mechanics and repairers fit, install, maintain and repair engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.

Tasks performed usually include:

Fitting, installing, maintaining and repairing engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.

Occupations in this minor group are classified into the following unit groups:

- 7231 Motor vehicle mechanics and repairers
- 7232 Aircraft engine mechanics and repairers
- 7233 Agricultural and industrial machinery mechanics and repairers
- 7234 Bicycle and related repairers

### Notes

Occupations are classified in Major group 8, Plant and machine operators and assemblers, if the tasks call mainly for experience with and an understanding of the machinery operated and

monitored. Occupations are classified in Major group 9, Elementary occupations, if the tasks are of a simple and routine nature, mainly entail the use of hand-held tools, some physical effort, little or no previous experience and understanding of the work and limited initiative or judgment.

### **7231 Motor vehicle mechanics and repairers**

Motor vehicle mechanics and repairers fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.

- (a) detecting and diagnosing faults in engines and parts;
- (b) fitting, examining, testing and servicing motor vehicle and motorcycle engines;
- (c) replacing engine components or complete engines;
- (d) fitting, examining, adjusting, dismantling, rebuilding and replacing defective parts of motor vehicles;
- (e) installing or adjusting motors and brakes, and adjusting steering or other parts of motor vehicles;
- (f) installing, adjusting, servicing and replacing mechatronics components of motor vehicles;
- (g) performing scheduled maintenance services, such as oil changes, lubrications and engine tune-ups, to achieve smoother running of vehicles and ensure compliance with pollution regulations;
- (h) reassembling engines and parts after being repaired.

Examples of the occupations classified here:

- Automotive brakes systems service technician
- Diesel fitter (road transport)
- Engine fitter (motor vehicle)
- Garage mechanic
- Motorcycle mechanic
- Motor vehicle engine and fuel systems service technician
- Motor vehicle mechanic
- Motor vehicle mechatronics service technician
- Motor vehicle repairer
- Motor vehicle service technician
- Small engine mechanic

Some related occupations classified elsewhere:

- Bicycle repairer - 7234
- Motor vehicle engine assembler – 8211

### **7232 Aircraft engine mechanics and repairers**

Aircraft engine repairers and mechanics fit, service, repair and overhaul aircraft engines and assemblies, such as airframes, hydraulic, and pneumatic systems.

Tasks include -

- (a) fitting, examining, testing and servicing aircraft engines;
- (b) replacing engine components or complete engines;
- (c) examining and inspecting airframes and aircraft components, including landing gear, hydraulic systems, and deicers to detect wear, cracks, breaks, leaks, or other problems;
- (d) maintaining, repairing, overhauling, modifying and testing aircraft structural, mechanical and hydraulic systems;
- (e) reading and interpreting manuals, service bulletins, and other specifications to determine the

- feasibility and method of repairing or replacing malfunctioning or damaged components;
- (f) maintaining, repairing, and rebuilding aircraft structures, functional components, and parts such as Wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets, and seals;
- (g) inspecting completed work to certify that maintenance meets standards and the aircraft is ready for operation;
- (h) maintaining repair logs, documenting all preventive and corrective aircraft maintenance;
- (i) installing and testing electrical and electronic components, assemblies, and systems in aircraft;
- (j) connecting components to assemblies such as radio systems, instruments, magnetos, inverters, and in-flight refueling systems.

Examples of the occupations classified here:

- Aircraft engine fitter
- Aircraft maintenance engineer (airframes)
- Aircraft maintenance engineer (engines)
- Aircraft maintenance supervisor
- Aircraft mechanic
- Aircraft restorer
- Aircraft service technician
- Airframe and power plant mechanic
- Airframe mechanic
- Aviation maintenance technician
- Helicopter mechanic
- Jet engine mechanic
- Pneudraulic systems mechanic (aircraft)
- Powerplant mechanic (aircraft)
- Rocket engine component mechanic

Some related occupations classified elsewhere:

- Aircraft maintenance engineer (avionics) - 7421
- Avionics technician - 7421
- Aircraft engine assembler- 8211

## **7233 Agricultural and industrial machinery mechanics and repairers**

Agricultural and industrial machinery mechanics and repairers fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.

Tasks include -

- (a) fitting, installing, examining, servicing and repairing engines, machinery and mechanical equipment;
- (b) oiling and greasing stationary engines and machinery;
- (c) inspecting and testing new machinery and mechanical equipment for conformity with standards and specifications;
- (d) disassembling machinery and equipment to remove parts and make repairs;
- (e) examining parts for defects such as breakage and excessive wear;
- (f) operating newly repaired machinery and equipment to verify the adequacy of repairs;
- (g) recording repairs and maintenance performed.

Examples of the occupations classified here:

- Air-conditioning equipment mechanic
- Construction machinery mechanic

- Construction machinery repairer
- Farm machinery repairer
- Mining machinery fitter
- Mining machinery repairer
- Stationary engine fitter
- Stationary engine repairer
- Train engine fitter
- Train engine repairer

Some related occupations classified elsewhere:

- Electrical mechanic - 7412
- Mechanical machinery assembler- 8211

## **7234 Bicycle and related repairers**

Bicycle and related repairers fit, maintain, service and repair the mechanical and related equipment of bicycles, rickshaws, baby carriages, wheelchairs and similar non-motorized transport equipment.

Tasks include -

- (a) examining, servicing and repairing bicycles and other non-motorized transport equipment;
- (b) cleaning and lubricating bearings and other moving parts;
- (c) replacing and repairing components and accessories, such as brakes, driving chain mechanism, wheels, handle bars etc.;
- (d) changing tyres and controlling air pressure;
- (e) spray painting frames;
- (f) assembling new bicycles, wheelchairs and similar non-motorized equipment.

Examples of the occupations classified here:

- Bicycle mechanic
- Bicycle repairer
- Perambulator repairer
- Wheelchair repairer

Some related occupations classified elsewhere:

- Moped repairer - 7231
- Motorized rickshaw mechanic – 7231

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>72</b>	<b>Sub-major Group</b>	<b>Metal, machinery and related trades workers</b>
<b>723</b>	<b>Minor Group</b>	<b>Machinery mechanics and repairers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7231</b>		<b>Motor vehicle mechanics and repairers</b>
	72311	Mechanic (automobile/ motor cycle/ motor vehicle/ GD)
	72312	Mechanic (transmission(automobile))
	72313	Mechanic (truck/bus/trolley/tractor)
	72314	Tuner (vehicle engine)/ Balancer(tyre)
	72315	Fitter( diesel: road transport/ engine: motor vehicle/ tyre)
	72316	Mechanic( engine/ diesel( motor vehicle)/ engine: motor vehicle/ garage/ motorized tricycle/ rickshaw: motorized/ small engine/ tuk-tuk)/Mechatronician

Unit Group	Sub-unit Group	Description
	72317	Fitter ,engine(motor vehicle)/Repairer( mechatronics/ moped motor vehicle/ tuk-tuk)
	72318	Technician( automotive brakes systems service/ mechatronics: servicing motor vehicles/ motor vehicle engine and fuel systems service/ motor vehicle mechatronics service/ motor vehicle service)
<b>7232</b>		<b>Aircraft engine mechanics and repairers</b>
	72321	Mechanic, aircraft (hydraulic system)
	72322	Mechanic, aircraft (engine service)
	72323	Aircraft restorer
	72324	Aeromechanic/Engineer, aircraft maintenance: airframe/Engineer, aircraft maintenance: engines/Erector, metal airframe/Fitter ,engine(aircraft)
	72325	Fitter-assembler, airframe/Mechanic, airframe/Mechanic, airframe and power plant/ Mechanic, helicopter
	72326	Repairer, engine: aircraft
	72327	Restorer, aircraft
	72328	Supervisor, aircraft maintenance
<b>7233</b>		<b>Agricultural and industrial machinery mechanics and repairers</b>
	72331	Fitter, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile/ woodworking/ turbine/ weaver beam/ earth-moving equipment/ industrial machinery)
	72332	Mechanic, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile/ woodworking/ construction/turbine/ weaver beam/ earth-moving equipment/ petrol/ steam engine/plantmaintenance/ typewriter/ curing press/ packaging machine)
	72333	Mechanic/Inspector, locomotive repair
	72334	Mechanic, engine (diesel (except motor vehicle))
	72335	Mechanic, turbine (except aircraft and marine turbines)
	72336	Millwright/Erector-installer, agricultural /machinery/Erector-installer, industrial machinery/Fitter( engine: marine/ engine: steam/ machine-tool/ plant maintenance/ stationary: engine/ train engine)
	72337	Mechanic, water treatment plant/
	72338	Mechanic (boat/ship/ engine room ship)/ Lubricator (ship)/Oiler and greaser/Oiler and greaser, ship/Repairer( construction machinery/ farm machinery/ mining machinery/ stationary engine/ train engine)
	72339	Mechanic ,plant maintenance/Mechanic, instrument/Repairman ,air valve/ Agricultural and industrial machinery mechanics and repairers,n.e.c.
<b>7234</b>		<b>Bicycle and related repairers</b>
	72341	Repairer/assembler (bicycle/ pedal cycle/ wheelchair)
	72342	Repairer (tyre/tube)
	72343	Mechanic, bicycle
	72344	Mechanic, perambulator/Repairer, perambulator

## **73 Handicraft and printing workers**

Handicraft and printing workers make and repair precision instruments, musical instruments, various articles such as jewellery, precious metalware, ceramics, porcelain ware and glassware, as well as handicrafts made of wood or textile, leather or related materials, or they perform printing or book-binding tasks.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organization, the materials and tools used, and the nature and purpose of the final product.

Tasks performed by workers in this sub-major group usually include:

Making and repairing nautical, meteorological, optical and other precision instruments and equipment; making and repairing musical instruments; making jewellery and precious metalware; making pottery, porcelain ware, ceramics and glassware; painting and decorating various articles; producing handicraft articles in wood or textile, leather and related materials; performing printing or book-binding tasks. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 731 Handicraft workers
- 732 Printing trades workers

### **731 Handicraft workers**

Handicraft workers combine artistic and manual skills to design, make, repair, adjust, maintain and decorate precision instruments, musical instruments, jewellery and other precious-metals, pottery and porcelain ware. They apply traditional and/or recently developed techniques to carve, mould, assemble, weave and decorate various glass, ceramics, textile, straw, stone, wood and leather articles.

Tasks performed usually include:

Making, calibrating, repairing, maintaining and installing musical and precision instruments; fabricating, adjusting, repairing, or appraising jewellery, ceremonial or religious items, gold, silver, other precious metals, or gems; cutting, filing, polishing and setting precious and semi-precious stones including gems and diamonds and engraving designs on jewellery and precious metal articles; preparing pottery, porcelain are, sanitary ware, bricks, tiles and abrasive wheels by hand or by machine; blowing, moulding, pressing, cutting, trimming, grinding and polishing glass, shaping molten glass according to patterns; decorating articles made of wood, metal, textiles, glass, ceramics and other materials, and planning, laying out and painting letters, figures, monograms and designs to make signs; applying traditional techniques like seasoning, impregnation to prepare wood, straw, rattan, reeds, stone, clay, shells, and other materials, and carving, moulding, assembling, weaving, or painting and decorating various articles for personal or household use, or for decorative purposes; preparing materials to make wicker furniture, brushes and brooms and weaving various kinds of baskets; applying traditional techniques and patterns to produce woven fabrics, knitted, embroidered and other garments and household articles.

Occupations in this minor group are classified into the following unit groups:

- 7311 Precision-instrument makers and repairers
- 7312 Musical instrument makers and tuners
- 7313 Jewellery and precious-metal workers
- 7314 Potters and related workers

- 7315 Glass makers, cutters, grinders and finishers
- 7316 Sign writers, decorative painters, engravers and etchers
- 7317 Handicraft workers in wood, basketry and related materials
- 7318 Handicraft workers in textile, leather and related materials
- 7319 Handicraft workers not elsewhere classified

### **7311 Precision-instrument makers and repairers**

Precision-instrument makers and repairers make, calibrate, repair, maintain, adjust and install mechanical watches, clocks, nautical, meteorological, optical, orthopedic and other precision instruments and equipment and set them for correct performance.

Tasks include -

- (a) repairing, cleaning, and adjusting mechanisms of timing instruments, such as watches and clocks;
- (b) adjusting timing regulators, using calipers, watch-rate recorders, and tweezers.
- (c) cleaning, rinsing, and drying timepiece parts, using solutions and ultrasonic or mechanical watch- cleaning machines;
- (d) testing timepiece accuracy and performance, using meters and other electronic instruments;
- (e) testing accuracy of meters, gauges, indicators, or other recording or controlling instruments to locate defective components and for conformance to standards;
- (f) calibrating instruments or scales, using hand tools, computer, or electronic devices;
- (g) inspecting components, connections, and drive mechanisms to detect defects;
- (h) assembling instruments and devices, such as barometers, control valves, gyroscopes, hygrometers, speedometers, tachometers, and thermostats;
- (i) testing, calibrating, and adjusting electronic, mercurial, aneroid, and other types of meteorological instruments for compliance with printed specifications and schematic diagrams, using voltmeters, oscilloscopes, tube testers, and other test instruments;
- (d) adjusting and repairing masts, supporting structures, clearance lights, control panels, control cabling and wiring, and other electrical and mechanical devices
- (k) repairing and setting optical instruments such as microscopes, telescopes, theodolites, sextants;
- (l) checking whether assembled units conform to specifications and ensuring stipulated performance and sensitivity by standard tests.

Examples of the occupations classified here:

- Instrument/meteorological maker
- Orthopedic appliance maker
- Watch maker

Some related occupations classified elsewhere:

- Surgical instrument maker - 3214
- Locksmith - 7222
- Machine-tool machine operator - 7223
- Watch assembler- 8212

### **7312 Musical instrument makers and tuners**

Musical-instrument makers and tuners make, assemble, repair, adjust, restore musical instruments and tune them to the required pitch with hand or power tools. They usually specialize in one type of instrument, such as string instruments, brass instruments pianos, reed instruments or percussion instruments.



Tasks include -

- (a) fabricating and assembling musical instruments and instrument parts of wood, ebonite, metal, leather and other materials;
- (b) repairing or replacing musical instrument parts and components, such as strings, bridges, felts, and keys, using hand and power tools;
- (c) playing and inspecting instruments to evaluate their sound quality and to locate any defects;
- (d) adjusting string tensions to achieve proper tone or pitch of stringed instruments;
- (e) adjusting lips, reeds, or toe hole of organ pipes, using hand tools, to regulate airflow and loudness of sound;
- (f) tuning and servicing pipe organs by adjusting pitch of organ A pipes to conform with pitch of tuning fork and adjusting pitch of other pipes with references to pitch of tuned pipes;
- (g) installing new drumheads in percussion instruments;
- (h) tuning accordions by aurally comparing pitch of reeds with master reeds and filing reeds to obtain standard pitch;
- (i) aligning pads and keys on reed or wind instruments;
- (j) tuning percussion instruments to required pitch by tightening or loosening cords holding leather pieces fixed atop or at both ends of instrument;
- (k) assembling and installing new pipe organs and pianos in buildings.

Examples of the occupations classified here:

- Brass instrument repairer
- Piano tuner
- Stringed instrument maker
- Woodwind instrument maker

### **7313 Jewellery and precious metal workers**

Jewellery and precious metal workers design, fabricate, adjust, repair, or appraise jewellery, ceremonial or religious items, gold, silver, other precious metals, or gems. They cut, file, polish and set precious and semi- precious stones including gems and diamonds and engrave designs on jewellery and precious metal articles .They cut and polish diamonds for industrial purposes.

Tasks include -

- (a) casting jewellery and other non-ferrous metal articles by hand;
- (b) creating new jewellery designs and modifying existing designs, using computers as necessary;
- (c) cutting designs in moulds or other materials to be used as models in the fabrication of metal and jewellery products;
- (d) altering existing jewellery mountings in order to reposition jewels or to adjust mountings.
- (e) repairing, reshaping and restyling old jewellery or precious metal ware following designs or instructions;
- (f) making complete jewellery articles such as rings, necklaces, bangles, brooches and bracelets from materials such as gold, silver, platinum, and precious or semiprecious stones;
- (g) examining gem surfaces and internal structures, using polariscopes, refractometers, microscopes, and other optical instruments, to differentiate between stones, to identify rare specimens, or to detect flaws, defects, or peculiarities affecting gem values;.
- (h) cutting and polishing gems and setting them in jewellery articles;
- (i) engraving or embossing letters, designs or decorative lines on jewellery and precious metal ware;
- (j) grinding, drilling and finishing jewel bearings for use in precision instruments such as compasses and chronometers;
- (k) examining assembled or finished products to ensure conformance to specifications, using magnifying glasses or precision measuring instruments.



Examples of the occupations classified here:

- Enameller, jewellery
- Goldsmith
- Jeweller
- Gem setter
- Silversmith

### **7314 Potters and related workers**

Potters and related workers prepare pottery, porcelain ware, sanitary ware, bricks, tiles and abrasive wheels by hand or by machine.

Tasks include -

- (a) making articles of pottery and porcelain;
- (b) making clay or plaster of Paris moulds;
- (c) reading technical drawings to know customer's requirements;
- (d) forming articles on potter's wheel by pressing thumbs into centres of revolving clay to form hollows, and press on the inside and outside of emerging clay cylinders with hands and fingers, gradually raising and shaping clay to desired forms and sizes;
- (e) adjusting wheel speeds according to the feel of the clay as pieces enlarge and walls become thinner;
- (f) operating jigger machines to form ceramic ware, such as bowls, cups, plates, and saucers;
- (g) adjusting and setting controls of pug mill that mixes, extrudes, cuts, and deposits clay charges in or over moulds as specified;
- (h) smoothening surfaces of finished pieces, using rubber scrapers and wet sponges;
- (i) forming abrasive wheels by moulding and pressing an abrasive mixture by hand or by machine;
- (j) examining finished ware for defects, verifying accuracy of shapes and sizes of objects, using callipers and templates;
- (e) preparing work for sale or exhibition, and maintaining relationships with retail, pottery, art, and resource networks that can facilitate sale or exhibition of work.

Examples of the occupations classified here:

- Pottery and porcelain caster
- Pottery and porcelain modeller
- Potter
- Abrasive Wheel Moulder

Some related occupations classified elsewhere:

- Kiln operator, brick and tile - 8181
- Kiln operator, pottery and porcelain – 8181

### **7315 Glass makers, cutters, grinders and finishers**

Glass makers, cutters, grinders and finishers blow, mould, press, cut, trim, grind and polish glass, shape molten glass according to patterns.

Tasks include -

- (a) heating glass to pliable stage, using gas flames or ovens, and rotating glass to heat it uniformly.
- (b) blowing and bending glass tubing into specified shapes to form scientific apparatus like flasks, retorts, pipettes
- (c) grinding and polishing glass objects or parts to correct defects or to prepare surfaces for

- further finishing and smoothening and polishing rough edges, using belt sander or polishing wheels
- (d) examining glass stock and finished products and marking or discarding items with defects such as spots, stains, scars, snags, chips, scratches, or unacceptable shapes or finishes.
  - (e) reading work orders to determine dimensions, cutting locations, and quantities to cut.
  - (f) observing gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments as necessary
  - (g) positioning pattern or drawing on glass, measuring dimensions, and marking cutting lines, using glass cutting tools and cutting glass along marked outlines or around pattern.
  - (h) setting up, operating and adjusting computerized or robotic glass cutting equipment
  - (i) inspecting, weighing, and measuring products to verify conformance to specifications, using instruments such as micrometers, callipers, magnifiers, and rulers
  - (j) regulating oven temperatures according to glass types to be processed.
  - (k) transferring pattern for individual stained glass parts from full size drawing to pattern paper, using stylus to trace drawings
  - (l) spraying silver solution on glass to provide mirrored surface, using spray gun
  - (m) laying out cutting and grinding optical and other glass to specified dimensions and weight for moulding into lens blanks and for use as watch crystals.

Examples of the occupations classified here:

- Glass blower
- Glass cutter
- Glass finisher
- Glass grinder

Some related occupations classified elsewhere:

- Glass production furnace operator- 8181

## **7316 Sign writers, decorative painters, engravers and etchers**

Sign writers, decorative painters, engravers and etchers decorate articles made of wood, metal, textiles, glass, ceramics and other materials. They plan, lay out and paint letters, figures, monograms and designs to make signs and engrave and etch ornamental and floral designs on glass and other articles.

Tasks include -

- (a) painting decorative free-hand designs on objects, such as pottery, glass, cigarette cases, lampshades;
- (b) transferring from paper transfers decorative or ornamental designs on articles;
- (c) integrating and developing visual elements, such as line, space, mass, colour, and perspective, in order to produce desired effects such as the illustration of ideas, emotions, or moods;
- (d) laying out and painting in one or more languages letters, figures, monograms and designs to make signs;
- (e) sketching or tracing design or lettering onto work piece or pattern material to prepare pattern or stencil;
- (f) designing pattern or lettering to paint work pieces, such as signs, glassware, pottery, or zinc plates;
- (g) using software and routing equipment to produce 3D Carved images for application onto larger signage as well as engraved and inlaid signs;
- (h) designing and producing normal flat cut lettering or lettering that is shadowed with applied vinyl or lettering that is ready cut for application;
- (i) writing, painting, or printing signs or show cards used for display or other purposes;
- (j) cutting out letters and signs for display purposes from wallboard or cardboard, by hand or machines, such as electrically powered jigsaw or bandsaw;

- (k) examining sketches, diagrams, samples, blueprints, or photographs to decide how designs are to be etched, cut, or engraved onto work pieces;
- (l) measuring and computing dimensions of lettering, designs, or patterns to be engraved;
- (m) engraving and printing patterns, ornamental designs, etchings, trademarks, figures or lettering onto flat or curved surfaces of a wide variety of metal, glass, plastic, or ceramic items;
- (n) etching decorative designs, calibration markings and other figures on glass articles.

Examples of the occupations classified here:

- Glass engraver
- Glass etcher
- Glass enameller
- Decorative painter
- Sign-writer

Some related occupations classified elsewhere:

- Ceramics painting machine operator- 8181
- Glass painting machine operator - 8181
- Building painter -7131
- Manufactured articles painter - 7132
- Vehicle painter – 7132

### **7317 Handicraft workers in wood, basketry and related materials**

Handicraft workers in wood and related materials apply traditional techniques like seasoning, impregnation to prepare wood, straw, rattan, reeds, stone, clay, shells, and other materials, and carve, mould, assemble, weave, or paint and decorate various articles for personal or household use, or for decorative purposes. Basketry weavers, brush makers and related workers select and prepare materials like bristles, nylon, fibre, bass, whisker and wire to make wicker furniture, brushes and brooms and weave various kinds of baskets.

Tasks include -

- (a) preparing wood, straw, rattan, reeds, stone, shells, or similar materials;
- (b) carving floral and artistic designs on wooden surfaces for decorative purposes;
- (c) painting free hand decorative designs on glass and pottery or porcelain ware;
- (d) carving, assembling, weaving, painting and decorating various articles for personal or household use such as salad bowls, serving-spoons, cutting-boards, trays, vases, jugs, baskets, straw hats, straw mats and similar objects;
- (e) carving, assembling, weaving and painting various decorative articles such as statues and other sculptures, chess pieces, jewellery, and similar objects;
- (f) making wicker furniture from peeled and softened rattan, reeds, rushes, willow branches and similar materials;
- (g) making various kinds of baskets by interlacing osier, rattan, reeds, rushes or similar materials;
- (h) forming bottom of basket by interlacing strips of rattan, wood veneer or other material with framework of rods of material such as willow;
- (i) inserting rods around edge of bottom between woven sections of bottom and bending them upright to serve as framework for sides;
- (j) selecting and preparing brush materials, such as bristles, nylon, fibers and wire, and setting them in brush base
- (k) selecting and preparing materials, such as broom corn, bass, whisker and fibre, and fastening them to broom handles;

Examples of the occupations classified here:

- Reed weaving handicraft worker
- Stone articles handicraft worker
- Wooden articles handicraft worker
- Basket maker
- Brush maker
- Wicker furniture maker

Some related occupations classified elsewhere:

- Machine operator (stone products) - 8114
- Machine operator (wood products) – 7523

### **7318 Handicraft workers in textile, leather and related materials**

Handicraft workers in textile, leather and related materials apply traditional techniques and patterns to produce woven fabrics, knitted, embroidered, woven and other garments and articles for household use, as well as traditional footwear, handbags, belts and other accessories

Tasks include -

- (a) spinning and dyeing with natural dyestuffs, wool, cotton and other fibers;
- (b) lace-making and weaving, knitting, or embroidering various garments and articles for household use;
- (c) preparing and dyeing hides with natural dyestuffs and making traditional footwear or handbags, belts and other accessories;
- (d) spinning and winding yarn by hand;
- (e) drawing warp threads into loom by hand;
- (f) weaving plain or figured cloth, tapestry, lace, carpet or other fabrics on hand looms;
- (g) making carpets by using a knotting technique;
- (h) knitting garments and other articles on hand-operated machine or by hand;
- (i) crocheting or making braid by hand;
- (j) making nets by hand;
- (k) grading and classifying natural textile fibers;
- (l) washing wool fibers;
- (m) cleaning and fluffing textile fibers;
- (n) forming fibers into sliver, combing them, combining sliver into sliver laps or forming sliver into rove.

Examples of the occupations classified here:

- Carpets handicraft worker
- Leather Handicraft worker
- Textiles handicraft worker
- Textile fibre comber
- Textile fibre drawer
- Textile fibre rover
- Knitter
- Thread and yarn spinner
- Loom threader
- Carpet weaver
- Weaver cloth

Some related occupations classified elsewhere:

- Textile fibre combing machine operator - 8151
- Knitting machine operator – 8152
- Weaving machine operator – 8152

## 7319 Handicraft workers not elsewhere classified

This unit group covers handicraft workers who perform traditional handicrafts not classified elsewhere. For instance, the group includes traditional handicraft workers in non-precious metals and stone.

Examples of the occupations classified here:

- Metal toymaker

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>73</b>	<b>Sub-major Group</b>	<b>Handicraft and printing workers</b>
<b>731</b>	<b>Minor Group</b>	<b>Handicraft workers</b>

Unit Group	Sub-unit Group	Description
<b>7311</b>		<b>Precision-instrument makers and repairers</b>
	73111	Fitter, precision instrument
	73112	Maker/repairer, instrument (mathematical/ scientific/educational/nautical/ precision/ optical/ meteorological/ barometer/ watch/balancer/ fountain pen)
	73113	Maker (orthopedic appliance/ brace (orthopedic)/ photographic equipment
	73114	Repairer/camera (orthopedic appliance/ dental instrument)/ photographic equipment (Surgical)
	<b>73115</b>	<b>Adjuster, precision instrument, watch, balancer, scale/ Calibrator, precision instrument, Calibrator, weights and measures.</b>
<b>7312</b>		<b>Musical-instrument makers and tuners</b>
	73121	Maker, instrument (32146 73112) (Maker/repairer) instrument (surgical) mouthpiece/pipe/ xylophone/ organ/ musical (brass)/ musical (metal wind)/ musical (string)/ musical (woodwind)
	73122	Repairer, instrument (guitar / violin/ musical (percussion)/musical (string)/musical (wind)
	73123	Fitter, musical instrument
	73124	Tuner (accordion/piano/ organ/ musical instrument)/ Tone regulator, musical instruments
	73125	Cutter (woodwind reeds)
	73126	Builder, organ/Maker, key: piano/Maker, sound-board: piano
	73127	Repairer( instrument: brass/ instrument: wind)
	73128	Stringer, piano/Voicer, organ
<b>7313</b>		<b>Jewellery and precious metal workers</b>
	73131	Jeweller /Dhagey wala/ Lapidary/ Smith (gold/silver/pewter)/ Nayara (jewellery)/ Sunar/ Maker, (bangle/ jewellery/ precious-metal articles)
	73132	Carver/ compactor/caster/engraver (ornaments/jewellery moulds)
	73133	Cutter-polisher(gems/jewels/ diamonds/ precious metal/ crystal/electronics)
	73134	Drawer/ Driller, wire (precious metal)
	73135	Polisher/Filler /Finisher/ Enameller (ornaments/ jewellery)
	73136	Melter/roller/spinner (gold/ precious metal)
	73137	Repairer, jewellery
	73138	Hammersmith, precious-metal articles/Maker, precious-metal chain/Maker, precious-metal leaf/Mounter, jewellery/Pewtersmith/Setter, gem/Setter, jewels Smith, hammer: precious-metal articles/Smith, pewter/Beater,gold

Unit Group	Sub-unit Group	Description
<b>7314</b>		<b>Potters and related workers</b>
	73141	Potter/ Kumhar/Fettler/finisher/driller/ Sticker-up (pottery/ pottery spout)
	73142	Foreman (clay preparation/ clay shop)
	73143	Foreman, press operation (manual) (brick and tile)
	73144	Presser/ Moulder (brick and tile (hand))/ clay extruding
	73145	Burnisher/dipper (ceramics )
	73146	Thrower/tuner/presser/caster/ Jiggerer/modeller (pottery and porcelain)
	73147	Maker, mould(potter/porcelain)
	73148	Moulder, abrasive wheel/ Dipper, ceramics/Handler, pottery/Jollier, pottery and porcelain/Maker, pottery spout
<b>7315</b>		<b>Glass makers, cutters, grinders and finishers</b>
	73151	Bender/ Drawer, glass (tube)
	73152	Blower, (glass/ scientific glass)/ Foreman (glass blowers)
	73153	Maker, bangle/ rod/tube (glass)
	73154	Cutter/finisher/flatter/grinder/rougher/beveller/borer/ladler (glass)
	73155	Grinder(precision)/ Foreman (glass grinding)
	73156	Bubbler (glass manufacturing)
	73157	Setter-operator, lathe (glass)
	73158	Worker (laminated glass)/ Driller, glass/Froster, glass sandblasting/Gatherer, glass/Grinder, glass edge/Moulder, glass/Worker, glass
<b>7316</b>		<b>Sign writers, decorative painters, engravers and etchers</b>
	73161	Cutter-shaper/ Engraver/ Etcher /Sandblaster /waxer (decorative glass/ crystal/intaglio)
	73162	Decorator, ceramics/ glass (freehand painting/ spray-painting)/ Decorator, pottery/ Enameller(glass/ceramics)
	73163	Painter, decorative (glass/ceramics)
	73164	Silverer (glass/mirror)
	73165	Bander/ Lithographer/ Duster/ Stamper (ceramics decorating)/ Letterer, sign-writing/Marker, glass engraving/Signpainter/Signwriter
	73166	Dipper/ Enameller (metal articles) Spray-painter, decorative painting/Stenciller, ceramics decoration/Toucher-up, /eramics decoration/Tracer, ceramics decoration/Transferrer, ceramics decoration
	73167	Acid polisher (glass decorating)
	73168	Painter, decorative (sign)/ Painter, brush/ spray (except construction
<b>7317</b>		<b>Handicraft workers in wood, basketry and related materials</b>
	73171	Handicraft worker, basketry/ Maker (basket)
	73172	Handicraft worker, reed weaving
	73173	Handicraft worker, straw articles/ Maker (chik)/ Weaver(straw)
	73174	Handicraft worker, wooden articles/ Maker, toy (wood)
	73175	Maker, furniture (basketry/wicker)/ Knitter(chair)
	73176	Maker, broom/brush
	73177	Maker, footwear (raffia)
	73178	Creeler/Maker, basket/Maker, paper/Weaver, basket/Worker, handicraft: paper articles

Unit Group	Sub-unit Group	Description
<b>7318</b>		<b>Handicraft workers in textile, leather and related materials</b>
	73181	Handicraft worker, hand (garments/garment knitting/textiles)/ Maker(button/ zipper slide-fastener)/ <b>Yarn dyer</b>
	73182	Weaver, hand (cloth/ coir/ jacquard/lace/axminster)/ Maker, tapestry (hand)/ Drawer-in, (textile weaving)/ Tufter(carpet weaving)
	73183	Foreman, weaving (carpet/ textile/ leather products/ bleaching/ wool sorting and grading)
	73184	Bleacher/blender/carder/comber/grader/opener/picker/preparer/rover/teaser/clearer /repairer,fibre (textiles)/ Degummer,hand/Drawer, , fiber(textile
	73185	Gasser(cotton/silk)/ Scourer(wool)/ Cutter(jute)/ Mixer, batch (jute)/ Selector, cotton
	73186	Spinner (mule/ring/ thread and yarn)/ threader, loom (hand)/ Knitter/ Steamer, garments (hand)/ Lapper(ribbon/fibre/sliver (textiles))/ Dyer, hand (garments/ yarn)
	73187	Maker(braid/ net (fishing/safety))/ Stripper(bobbin)/ Carpet-maker/Comber, fibre: textile/Crocheter/Grader, fibre: textile/Maker, artificial flower Maker, braid/Maker, carpet
	73188	Handicraft worker, hand (leather products)/(finisher/fitter/splicer) (leather products)/Maker(belt/ leather bag/ leather suitcase)/ <b>Carpets/garments/ knitting/ textile weaving.</b>
<b>7319</b>		<b>Handicraft workers not elsewhere classified</b>
	73191	Handicraft worker, paper articles
	73192	Maker, envelop (hand)
	73193	Maker, paper articles
	73194	Handicraft worker, stone articles/ toymaker (stone/metal)
	73195	Handicraft worker, candlemaking/ Maker(candle)

## 732 Printing trades workers

Printing trades' workers compose and set type prior to printing, set up and operate printing presses, bind and finish printed products, and prepare stencils and operate screen printing equipment

Tasks performed usually include: operating graphic cameras and other photographic equipment to reproduce camera-ready copy onto films, plates and digital output devices; operating computer screen-based equipment for scanning, colour separation and correction, retouching and other processes used to transfer copy to film and produce film for plate, cylinder and digital output productions; setting up, operating and monitoring machines used in typesetting, photographing copy, printing and cutting, folding, collating and binding printed material; performing routine finishing operations and machine maintenance; preparing stencils and operating screen printing equipment.

Occupations in this minor group are classified into the following unit groups:

- 7321 Pre-press technicians
- 7322 Printers
- 7323 Print finishing and binding workers



## **7321 Pre-press technicians**

Pre-press technicians proof, format, set and compose text and graphics into a form suitable for use in various printing processes and representation in other visual media.

Tasks include -

- (a) operating graphic cameras and other photographic equipment to reproduce camera-ready copy onto films, plates and digital output devices;
- (b) using computer applications to generate images, text, layouts and impositions for print and other visual media displays;
- (c) operating plate making equipment to reproduce images from film to printing plates, digital output devices and presses;
- (d) operating computer screen-based equipment for scanning, colour separation, colour correction, masking, creative design, combining, imposing, retouching, and other processes used to transfer copy to film and produce film for plate, digital output and cylinder productions;
- (e) carrying out digital and chemical proofing from digital systems, and negative and positive films;
- (f) evaluating printed proofs, checking and correcting them for quality;
- (g) preparing and exposing carbon tissue for laying on cylinders by transfer method, and developing images.

Examples of the occupations classified here:

- Compositor
- Desktop publishing operator
- Electronic pre-press technician
- Plate moulder (screen printing)
- Plate maker (printing)
- Screen maker
- Typesetter

## **7322 Printers**

Printers set up and operate digital, letterpress, lithographic, flexographic, gravure, newspaper and other printing presses.

Tasks include -

- (a) setting, adjusting and monitoring substrate-feed mechanisms, delivery mechanisms, inking systems and other printing machine functions;
- (b) mixing ink and solvents to standard, and regulating paper and ink supply during print runs;
- (c) monitoring, evaluating and determining press to check print quality standards against proofs and detect malfunctions;
- (d) producing a variety of printed products using relief, lithographic, flexographic and gravure printing presses, and in-line finishing systems;
- (e) preparing plates, blankets and impression cylinders on small offset lithographic printing presses;
- (f) loading paper into feeding mechanisms;
- (g) monitoring machine operations and quality of printing;
- (h) maintaining, adjusting, repairing and cleaning machines;
- (i) producing digital print images, and transferring and outputting images.

Examples of the occupations classified here:

- Block printer



Digital press operator  
 Feeder operator (printing)  
 Flexographic press operator  
 Gravure press operator  
 Large sheet-fed press operator  
 Screen printer  
 Screen printing press operator  
 Small press operator  
 Web press operator

### **7323 Print finishing and binding workers**

Print finishing and binding workers bind books and other publications, and finish printed products by hand or machine.

Tasks include -

- (a) setting up and supervising the operation of automatic binding and finishing equipment;
- (b) binding full, half and limp-bound books, and repairing bindings;
- (c) folding, collating and sewing signatures by machine and hand;
- (d) operating paper guillotines for pre-press and post-press paper cutting and trimming, and programming electronically operated units;
- (e) operating systems to insert printed material into newspapers, magazines and envelopes;
- (f) embellishing printed products automatically and manually;
- (g) operating photographic and electronic reproduction devices.

Examples of the occupations classified here:

Book binder  
 Collator operator  
 Cutter operator  
 Foil Stamp operator  
 Folder operator  
 Multibinder operator  
 Perfect binder operator  
 Saddle stitch operator  
 Small machine bindery worker

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>73</b>	<b>Sub-major Group</b>	<b>Handicraft and printing workers</b>
<b>732</b>	<b>Minor Group</b>	<b>Printing trades workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7321</b>		<b>Pre-press technicians</b>
	73211	Assistant, planning (printing)/Compositor, printing (hand)/Foreman, composer room (printing) / (Imposer/impositor/ Photo-composer)printing,proof presser/ <b>Mounter, photogravure (printing)/Zinc corrector.</b>
	73212	Operator, desktop publishing equipment
	73213	Operator/ <b>Moulder</b> (intertype/ linotype/ monotype keyboard)/Electrotyper/ Monotyper/ Typesetter (linotype/ photo-type)/ Type-caster (printing and publishing)/ Caster, (stereotype/ electrotype)

Unit Group	Sub-unit Group	Description
	73214	Maker (braille plate/ stencil plate (printing)/ Maker-up (photo-typesetting/ printing)/ Moulder(roller (printing)/ stereotype/ electrotype)
	73215	Engraver (picture/ printing (lithographic stone)/ Printing (metal die/ metal plate/ metal roller/ pantograph/ photogravure) /Engraver, printing block (linoleum/ rubber/wood)/ Photo-engraver
	73216	Etcher (colour/ half tone/ photogravure/ metal engraving)/ Etcher, printing: metal plate/Etcher, printing: metal /roller/Intertype /operator/Linotyper/Maker, braille plate/Maker, photogravure: printing plate/Maker, screen/Operator, camera: printing/Phototypesetter, printing/Publisher, desk-top: print media/Stereotyper/ Stonehand, printing/Technician, electronic pre-press/Tuscher, lithographic/ Typographer
	73217	Operator, (ammonia print/ powder process)
	73218	Finisher/ Retoucher (negative/ printing plate/lithographic/ photogravure)/ Corrector (zinc)/ Transferrer (photomechanical)/ Artist, stipple (lithographic)/ Transferrer, (lithographic)/ <b>Plate (photo-engraving)</b>
	73219	Grainer, photogravure (printing plates)/ Mounter, photogravure (printing)/Photographer, photogravure / Cameraman, xerography (offset printing)/ Proofer (photogravure)/ Photolithographer/ Pre-press technicians n.e.c
<b>7322</b>	<b>Printers</b>	
	73221	Printer / Proof-presser/ Pressman/Maturer/ layer-on/Taker-off/ Inker/ Feeder (paper/ printing press)
	73222	Printer (bromide/Stonehand/ Ferro/ silk-screen/ block/ textile/ bag/ copper plate)/ Printer-to-metal (photogravure)
	73223	Cutter/maker, stencil (silk-screen)/Embosser(paper)/ Stamper (heraldic printing)/ Holder, section (priming)/ Operator, letterpress (cylinder/platen)
	73224	Press-operator, printing (cylinder/platen /direct lithographic)/ Operator, press: digital/Operator, press: flexographic/Operator, press: gravure/Operator, press: large sheet-fed /Operator, press: photogravure/Operator, press: screen printing/Operator, press: small/Operator, press: web
	73225	Press-operator, printing (offset/ rotary/ rotogravure/ wallpaper/)
	73226	Machine-operator, casting (Ludlow/ printing type)/printing (textiles)/Setter-operator, casting machine (printing type)
	73227	Machine-operator, photo-typesetting
	73228	Machine-operator, (composing (linotype)/Braille (plate preparer)/duplicating (braille) Jogger, web press/ Operator, feeder: printing/Operator, letterpress: rotary/Operator, machine: casting (printing type)/Operator, machine: photo-typesetting
<b>7323</b>	<b>Print finishing and binding workers</b>	
	73231	Bookbinder/ sewer/ forwarder/ finisher/ collator/ gilder/ marble, (bookbinding)
	73232	Embosser, book (hand)
	73233	Foreman, bookbinding
	73234	Machine-operator, bookbinding
	73235	Machine-operator ( embossing (books)/collating (book binding))
	73236	Operator( cutter: printing/ foil stamp/ folder: printing/ gatherer: printing)
	73237	Operator( multibinder/ perfect binder/saddle stitch: bookbinding)

## **74 Electrical and electronics trades workers**

Electrical and electronics trades workers install, fit and maintain electrical wiring systems and machinery and other electrical apparatus, electrical transmission and supply lines and cables, and electronic and telecommunications equipment and systems.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organization, the materials and tools used, and the nature and purpose of the final product.

Tasks performed usually include:

Installing, maintaining, fitting and adjusting electrical and electronic wiring systems, machinery and equipment; examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation; inspecting and testing electrical and electronic systems, equipment, cables and machinery to identify hazards, defects, and the need for adjustment or repair; installing maintaining and repairing electrical and telecommunications transmission lines; joining electrical, telecommunications and data cables; maintaining, troubleshooting, fitting, adjusting, testing and repairing electronic equipment such as commercial and office machines and electronic instruments and control systems, computers, telecommunications and data transmission equipment.

Occupations in this sub-major group are classified into the following minor groups:

- 741 Electrical equipment installers and repairers
- 742 Electronics and telecommunications installers and repairers

### **741 Electrical equipment installers and repairers**

Electrical equipment installers and repairers install, fit and maintain electrical wiring systems and related equipment, electrical machinery and other electrical apparatus and electrical transmission and supply lines and cables.

Tasks performed usually include:

Installing, maintaining, fitting and adjusting electrical wiring systems, machinery and equipment; examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation; inspecting and testing electrical systems, equipment, cables and machinery to identify hazards, defects, and the need for adjustment or repair; installing maintaining and repairing electrical transmission lines; joining electrical cables.

Occupations in this minor group are classified into the following unit groups:

- 7411 Building and related electricians
- 7412 Electrical mechanics and fitters
- 7413 Electrical line installers and repairers

#### **7411 Building and related electricians**

Building and related electricians install, maintain and repair electrical wiring systems and related equipment and fixtures.

Tasks include -

- (a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures;
- (b) examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation;
- (c) planning layout and installation of electrical wiring, equipment and fixtures, based on job specifications and relevant standards;
- (d) inspecting electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair;
- (e) selecting, cutting and connecting wire and cable to terminals and connectors;
- (f) measuring and laying out installation reference points;
- (g) positioning and installing electrical switchboards;
- (h) testing continuity of circuit.

Examples of the occupations classified here:

- Electrician
- Building repairs electrician

Some related occupations classified elsewhere:

- Electrical fitter - 7412
- Electrical mechanic - 7412
- Electrical line installer – 7413

## **7412 Electrical mechanics and fitters**

Electrical mechanics and fitters fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops, or other places.

Tasks include -

- (a) fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switchgear and control apparatus, instruments, or electrical parts of elevators and related equipment;
- (b) fitting, adjusting and repairing electrical parts in domestic appliances, industrial machines and other appliances;
- (c) inspecting and testing manufactured electrical products;
- (d) installing, testing, connecting, commissioning, maintaining and modifying electrical equipment, wiring and control systems;
- (e) designing, installing, maintaining, servicing and repairing electric and hydraulic passenger and freight lifts, escalators, moving walkways and other lift equipment;
- (f) connecting electrical systems to power supply;
- (g) replacing and repairing defective parts.

Examples of the occupations classified here:

- Armature builder
- Electrical generator fitter
- Electrical mechanic
- Lift mechanic

Some related occupations classified elsewhere:

- Electronics mechanic – 7421
- Electrical equipment assembler – 8212

## **7413 Electrical line installers and repairers**

Electrical line installers and repairers install, repair and join electrical transmission and supply cables and related equipment.

Tasks include -

- (a) installing and repairing overhead and underground electrical power and electrical traction lines;
- (b) making joints in overhead and underground cables;
- (c) adhering to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas ;
- (d) opening switches or attaching grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs;
- (e) climbing poles or using truck-mounted buckets to access equipment;
- (f) identifying defective sectionalizing devices, circuit breakers, fuses, voltage regulators, transformers, switches, relays, or wiring, using wiring diagrams and electrical-testing instruments.

Examples of the occupations classified here:

- Electric cable jointer
- Electric power line worker

Some related occupations classified elsewhere:

- Data and telecommunications cable - 7422
- Telecommunications line worker – 7422

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>74</b>	<b>Sub-major Group</b>	<b>Electrical and electronic trades workers</b>
<b>741</b>	<b>Minor Group</b>	<b>Electrical equipment installers and repairers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>7411</b>		<b>Building and related electricians</b>
	74111	Electrician (wireman/ indoor/building (electrical installation/maintenance)
	74112	Electrician (aerial way )/ups
	74113	Electrician (mine)
	74114	Electrician (neon-lighting)
	74115	Electrician (stage, studio and theater)
	74116	Foreman, electrician
	74117	Inspector (street light)
<b>7412</b>		<b>Electrical mechanics and fitters</b>
	74121	Electrician/fitter(motor vehicle/ship/train/aircraft ,ups)/ Charger, lamp (mining)/ Installer, Electrical meter
	74122	Mechanic, electrical
	74123	Builder(armature/commutator/ core)
	74124	Fitter, electrical (elevator and related equipment)

Unit Group	Sub-unit Group	Description
	74125	Fitter, electrical (instruments/ signaling equipment)
	74126	Electrician/fitter, electrical (domestic appliances/ refrigeration and air-conditioning)
	74127	Fitter, electrical (electrical meter/ switchboard/ switchgear/ transformer/ rheostat/ generator/magneto/motor/ dynamo/ electrical pipe)
	74128	Foreman, electrical (motor/ electrical meter/ electrical office equipment)/ Repairer, wheelchair: motorized/Repairer, electrical /equipment/Repairer, wheelchair: electric/Service, electrical equipment
<b>7413</b>		<b>Electrical line installers and repairers</b>
	74131	Foreman, line (electrical)
	74132	Jointer,cable(electrical)
	74133	Layer, cable (underground)
	74134	Worker, cable/line/wire (electric power (overhead/underground)
	74135	Worker, cable/line/wire (electric traction (overhead cables)
	74136	Trolleyman, aerial way
	74137	Plumber-jointer, electric cable

## **742 Electronics and telecommunications installers and repairers**

Electronics and telecommunications installers and repairers fit, maintain, adjust and repair electronic equipment such as commercial and office machines and electronic instruments and control systems and install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and repair, fit and maintain computers.

Tasks performed usually include:

Examining and testing machines, equipment, instruments and control systems to diagnose faults; adjusting, repairing, and replacing worn and defective parts and wiring, and maintaining machines, equipment and instruments; installing electronic instruments and control systems; fitting and adjusting electronic equipment; maintaining, troubleshooting, fitting, adjusting, testing and repairing computers, data transmission equipment and computer peripherals; installing, maintaining, repairing, and diagnosing malfunctions of microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communications systems; providing technical advice and information, and monitoring the performance of complex telecommunications networks and equipment; installing, joining and repairing cabling for computer, radio, telephone and television transmission; installing, maintaining and repairing antennae used in communications.

Occupations in this minor group are classified into the following unit groups:

7421 Electronics mechanics and servicers

7422 Information and communications technology installers and servicers

## **7421 Electronics mechanics and servicers**

Electronics mechanics and servicers fit, maintain, adjust and repair electronic equipment such as commercial and office machines and electronic instruments and control systems.

Tasks include:

- (a) examining and testing machines, instruments, components, other equipment, instruments and control systems to identify faults;
- (b) adjusting, repairing, and replacing worn and defective parts and wiring, and maintaining machines, equipment and instruments;
- (c) reassembling, test operating and adjusting equipment;
- (d) installing electronic instruments and control systems;
- (e) coordinating work with that of engineers, technicians, and other maintenance personnel;
- (f) interpreting test data to diagnose malfunctions and systemic performance problems;
- (g) installing, adjusting, repairing or replacing electrical and electronic components, assemblies, and systems using hand tools, power tools, or soldering irons;
- (h) connecting components to assemblies such as radio systems, instruments, magnetos, inverters, and in- flight refueling systems;
- (i) keeping records of maintenance and repair work.

Examples of the occupations classified here:

- Aircraft maintenance engineer (avionics)
- Avionics technician
- Automated teller machines mechanic
- Electronics mechanic
- Electronic equipment servicer
- Photocopy machine technician

Some related occupations classified elsewhere:

- Air traffic safety technician – 3155

## **7422 Information and communications technology installers and servicers**

Information and communications technology (ICT) installers and servicers install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and conduits and repair, fit and maintain computers.

Tasks include -

- (a) maintaining, troubleshooting, testing and repairing computers, data transmission equipment and computer peripherals;
- (b) fitting and adjusting computer hardware;
- (c) installing, maintaining, repairing, and diagnosing malfunctions of microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communications systems;
- (d) providing technical advice and information, and monitoring the performance of complex telecommunications networks and equipment;
- (e) installing and repairing cabling for computer, radio, telephone and television transmission;
- (f) joining telecommunications and data cables and sealing sheathes;
- (g) installing, maintaining and repairing antennae used in communications.

Examples of the occupations classified here:

- Data and telecommunications cabler
- Computer equipment fitter
- Communications technician

- Hardware technician
- Telecommunications technician
- Telephone installer

Some related occupations classified elsewhere:

- Engineering technician (telecommunications) – 3522

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>74</b>	<b>Sub-major Group</b>	<b>Electrical and electronic trades workers</b>
<b>742</b>	<b>Minor Group</b>	<b>Electronics and telecommunications installers and repairers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>7421</b>		<b>Electronics mechanics and servicers</b>
	74211	Fitter, electronics (audio-visual equipment/ equipment/ meteorological equipment/ radar/signaling equipment/ signaling systems)
	74212	Foreman, audio-visual equipment
	74213	Mechanic, electronics (audio-visual equipment/ office equipment)
	74214	Servicer, electronics equipment (audio-visual)
	74215	Engineer, aircraft maintenance: avionics
	74216	Technician, avionics/Technician, photocopy machine
	74217	Mechanic( accounting-machine /utomated teller machines/Mavionics/ business machine: electronic/ calculating machine: electronic/ electronics/ office machine: electronic)
	74218	Repairer, audio-visual equipment/Repairer, electronics equipment/Servicer, audio-visual equipment/Servicer, electronic equipment
<b>7422</b>		<b>Information and communications technology installers and servicers</b>
	74221	Fitter, electronics equipments (information &communications) / Repairer, television/radio/ Mechanic(telephone/telegraph/computer)/ Repairer, telecommunications equipment/ Servicer, communications technology/ Mechanic(television/radio)/ Repairman(telephone/telegraph/computer)
	74222	Maintainer, section (telephone/telegraph/computer)/ Foreman (radio mechanic/television mechanic)
	74223	Jointer ,cable, (telephone/telegraph)/ Cable man ,telephone/telegraph/ Jointer , cable/ Line worker ,telephone/telegraph/ Tester ,cable/ Puller, cable (cable laying)/ Installer)(telephone/telegraph/computer)
	74224	Foreman, installation (telephone and telegraph)
	74225	Erector, aerial (communication)/ Erector, aerial (radio/television)
	74226	Cabler, data/Cabler, telecommunications/ Foreman, line (telephone/telegraph)
	74227	Technician( communications: telecommunications/ computer: hardware
	74228	Worker( cable: data/ cable: telecommunications/ cable: telegraph/ cable: telephone/ line: telecommunications/Worker, line: telegraph/ line: telephone/ wire: telegraph/ wire: telephone)



## **75 Food processing, wood working, garment and other craft and related trades workers**

Food processing, wood working, garment and other craft and related trades workers treat and process agricultural and fisheries raw materials into food and other products, and produce and repair goods made of wood, textiles, fur, leather, or other materials.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organisation, the materials and tools used, and the nature and purpose of the final product.

Tasks performed by workers in this sub-major group usually include:

Treating and processing meat, fish, grain, fruit, vegetables and related materials into food stuffs, and tobacco into tobacco products; tasting and grading food products and beverages; treating and processing natural fibres, skins and hides; making and repairing furniture and other goods made of wood; preparing hides, skins and pelts for further use; making and repairing textiles, garments, hats, shoes and related products. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 751 Food processing and related trades workers
- 752 Wood treaters, cabinet-makers and related trades workers
- 753 Garment and related trades workers
- 754 Other craft and related workers

### **751 Food processing and related trades workers**

Food processing and related trades workers slaughter animals, treat and prepare them and related food items for human and animal consumptions, make various kinds of bread, cakes and other flour products, process and preserve fruit, vegetables and related foods, taste and grade various food products and beverages, or prepare tobacco and make tobacco products.

Tasks performed usually include:

Slaughtering animals; treating meat and fish and preparing them and related food items; making various kinds of bread, cakes and other flour products; processing and preserving fruit, vegetables and related foods; tasting and grading various food products and beverages; preparing tobacco and making tobacco products. Supervision of workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 7511 Butchers, fishmongers and related food preparers
- 7512 Bakers, pastry - cooks and confectionary makers
- 7513 Dairy product makers
- 7514 Fruit, vegetable and related preservers
- 7515 Food and beverage tasters and graders
- 7516 Tobacco preparers and tobacco product makers

#### **7511 Butchers, fishmongers and related food preparers**

Butchers, fishmongers and related food preparers slaughter animals, clean, cut and dress meat and fish, remove bones and prepare related food items or preserve meat, fish and other foods and food products by drying, salting or smoking.

Tasks include -

- (a) slaughtering animals;
- (b) flaying and trimming carcasses;
- (c) boning, cutting and dressing meat and fish for sale or further processing;
- (d) preparing ingredients and making sausages and similar products using chopping, mixing and shaping machines;
- (e) curing meat, fish and other foods;
- (f) operating smokehouses or ovens to smoke meat, fish and other foodstuffs
- (g) cooking or in other ways preparing meat, fish and related food items for sale ;
- (h) selling meat or fish to customers, including wrapping, weighing and labelling products, and receiving payment.

Examples of the occupations classified here:

- Butcher
- Fish filleter
- Fishmonger
- Slaughterer

Some related occupations classified elsewhere:

- Shop keeper - 5221
- Meat processing machine operator-8160
- Fish processing machine operator-8160

## **7512 Bakers, pastry-cooks and confectionery makers**

Bakers, pastry-cooks and confectionery makers make various kinds of bread, cakes, and other flour products, as well as handmade chocolate and sugar confectionery.

Tasks include -

- (a) making bread, cakes, biscuits, pastries, pies and other flour products;
- (b) making handmade confectionery from mixtures of sugar, chocolate and other ingredients using hand tools and some machines;
- (c) combining measured ingredients in bowls of mixing, blending, or cooking machinery;
- (d) checking the quality of raw materials to ensure that standards and specifications are met;
- (e) applying glazes, icings, or other toppings to baked goods, using spatulas or brushes;
- (f) checking the cleanliness of equipment and operation of premises before production runs to ensure compliance with occupational health and safety regulations;
- (g) monitoring oven temperatures and product appearance to determine baking times;
- (h) coordinating the forming, loading, baking, unloading, de-panning and cooling of batches of bread, rolls, pastry and confectionary products.

Examples of the occupations classified here:

- Baker
- Confectioner
- Chocolate maker
- Pastry-cook

Some related occupations classified elsewhere:

- Cook - 5120
- Bakery products machine operator - 8160
- Bread production machine operator- 8160
- Chocolate production machine operator- 8160

### **7513 Dairy products makers**

Dairy products makers process butter and various types of cheese, cream or other dairy products.

Tasks include -

- (a) boiling or pasteurizing milk to achieve specified butter fat content
- (b) separating cream from milk and churning cream into butter;
- (c) dumping measured amounts of starter and other ingredients into milk;
- (d) curdling milk, heating curd until it reaches desired firmness, draining curd and placing cheese into moulds to press it into shape;
- (e) salting cheese and piercing or smearing cheese with cultured wash to develop mould growth;
- (f) placing and turning cheese blocks on shelves to cure cheese;
- (g) monitoring product quality before packaging by inspecting, taking samples and adjusting treatment conditions when necessary;
- (h) recording amounts of ingredients used, test results, and time cycles

Examples of the occupations classified here:

- Butter maker
- Cheese maker

Some related occupations classified elsewhere:

- Dairy products machine operator - 8160
- Milk processing machine operator - 8160

### **7514 Fruit, vegetable and related preservers**

Fruit, vegetable and related preservers process or preserve fruit, nuts and related foods in various ways including cooking, drying, salting, or juice or oil extraction.

Tasks include -

- (a) extracting juices from various fruits;
- (b) extracting oils from oil-bearing seeds, nuts or fruits;
- (c) cooking, salting or drying fruit, vegetables and related foods;
- (d) mixing and adding ingredients such as pectin, sugar, spices and vinegar to assist preservation and enhance texture, appearance and flavour;
- (e) transferring preserved foods to sterile jars, bottles or other containers

Examples of the occupations classified here:

- Chutney maker
- Fruit preserver
- Jam maker
- Oil expeller
- Vegetable /fruit pickler
- Vegetable preserver

Some related occupations classified elsewhere:

- Canning machine operator -8160

## **7515 Food and beverage tasters and graders**

Food and beverage tasters and graders inspect, taste and grade various types of agricultural products, food and beverages.

Tasks include –

- (a) inspecting, testing, tasting and smelling agricultural products, food and beverages at various stages of processing;
- (b) determining quality, acceptability to consumer tastes and approximate value of products and grading them into appropriate classes;
- (c) discarding inferior products;
- (d) recording the grade and/or identification numbers on tags, receiving, or sales sheets;
- (e) weighing and measuring products.

Examples of the occupations classified here:

- Food grader
- Food taster
- Liquor taster
- Tea taster
- Wine taster

## **7516 Tobacco preparers and tobacco products makers**

Tobacco preparers and tobacco products makers prepare tobacco leaves and make various tobacco products.

Tasks include –

- (a) grading cured tobacco leaves by type, quality and locality where grown;
- (b) mixing tobacco leaves according to formula to obtain a blend of distinct flavour;
- (c) tending vacuum container which moistens tobacco for further processing;
- (d) removing midribs and stalks from tobacco leaves and shredding tobacco;
- (e) making cigars, cigarettes, snuff and other tobacco products by hand or with simple machines.

Examples of the occupations classified here:

- Cigar maker
- Cigarette maker
- Tobacco grader

Some related occupations classified elsewhere:

- Cigar production machine -operator- 8160
- Cigarette production machine operator – 8160

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>75</b>	<b>Sub-major Group</b>	<b>Food processing, wood working, garment and other craft and related trades workers</b>
<b>751</b>	<b>Minor Group</b>	<b>Food processing and related trades workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>7511</b>		<b>Butchers, fishmongers and related food preparers</b>
	75111	Eviscerator (animal/poultry)/ Skinner, animal/ Slaughterer/ Splitter( carcass)/ Sticker/ Stunner (animal)
	75112	Cutter/curer (fish/ meat/ kosher)
	75113	Dresser, meat/poultry/triple/(Butcher/boner (fish/meat)/ Trimmer, meat)
	75114	Gambreller (butchery)/ Knacker/ Flayer
	75115	Shactor/ Worker, offal/ Stripper, gut
	75116	Filleter/ Driver/ Pickler/Curer/Smoker/Salter (meat/fish/bacon)/fishmonger
	75117	Briner ( foodstuffs)/ Preserver, sauces and condiments/ Maker (sausage/ string (gut)
	75118	Worker, smokehouse: fish/Worker, smokehouse: meat/
<b>7512</b>		<b>Bakers, pastry-cooks and confectionery makers</b>
	75121	Baker (bread/ general/ biscuit/ pastry)
	75122	Maker, yeast/ Mixer, bread dough/ Mixer, paste (pies)
	75123	Ovenman (bread/biscuits/ flour confectionery/ Pastry-cook)
	75124	Maker (chocolate/ sugar confectionery/ macaroni/noodle/chewing-gum/ flour confectionery/ pie/sweet meat)
	75125	Halwai/ Confectioner
	75126	Tandorchhi
	75127	Concher, chocolate/Cutter, sugar confectionery/Decorator, cake/Dipper, sugar confectionery/Grinder, chocolate/Hand, table: bread/Hand, table: flour confectionery
	75128	Mixer, chocolate/Mixer, flour confectionery/Mixer, sugar confectionery Moulder, chocolate/Presser, chocolate production/Presser, noodle extruding Refiner, chocolate/Roller, sugar confectionery/Temperer, chocolate Worker, oven: biscuits/Worker, oven: bread/Worker, oven: flour /(confectionery)
<b>7513</b>		<b>Dairy products makers</b>
	75131	Maker (butter/ cheese)
	75132	Maker, dairy products
	75133	Maker, ice-cream
<b>7514</b>		<b>Fruit, vegetable and related preservers</b>
	75141	Canner/ Pickier/ Preserver (fruit)
	75142	Preserver (fruit juice/ vegetable juice)/Cook, preserving
	75143	Canner/ Pickler/ Preserver (vegetable)
	75144	Maker (fruit juice/ sugar (traditional methods)/ vegetable juice)
	75145	Blancher, nuts (hand)/ Expeller, oil
	75146	Maker (chutney/jam)

Unit Group	Sub-unit Group	Description
<b>7515</b>		<b>Food and beverage tasters and graders</b>
	75151	Grader ( food/ meat/ oil /vegetable/fruit/ cocoa/coffee) (hand)
	75152	Taster, (food /coffee/tea /juice/( liquor/ wine))/ Maker, (champagne /liqueur/ vinegar)
	75153	Blender, (coffee /tea/ wine)/ Kibbler, (cocoa-bean)
	75154	Roaster, (coffee/ coca-bean) (hand)
	75155	Clarifier /Racker, (wine)
<b>7516</b>		<b>Tobacco preparers and tobacco products makers</b>
	75161	Blender/mixer (tobacco))/ flavourer/ grader/ bulker( tobacco)
	75162	Conditioner/dipper /cutter/ dryer, (tobacco)
	75163	Stemmer/stripper/stover/stringer (tobacco/presser /Sorter, cigar))/ Supervisor, bidi maker
	75164	Maker (tobacco cake/plug /cigar /bidi /cigarette /naswar/snuff)
	75165	Drier, snuff/Drier, tobacco/Dryer, tobacco
	75166	Presser, cigar/Roller, cigar/Screeners, snuff
	75167	Worker( tobacco: conditioning/ tobacco, cutting/ tobacco: drying/ tobacco: leaf stemming/ tobacco: leaf stripping)

## **752 Wood treaters, cabinet-makers and related trades workers**

Wood treaters, cabinet-makers and related trades workers preserve and treat wood; produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products; and make, decorate and repair wooden furniture, vehicles and other wooden products. They use specialized hand tools and set-up, operate and tend wood processing and woodworking equipment, machines and machine tools.

Tasks performed usually include:

Operating and tending treating and other equipment to dry lumber and other wood products, and to treat chemically and impregnate wood products with preservatives; operating woodworking machines to cut, shape and form parts and components; studying plans, verifying dimensions of articles to be made, fitting parts together to form complete units and checking the quality and fit of pieces to ensure adherence to specifications; setting and adjusting various kinds of machines for operation by others; setting-up, programming, operating and monitoring several types of woodworking machines to fabricate, repair or refinish wooden parts for furniture, fixtures and other wood products; and reading and interpreting specifications or following verbal instructions.

Occupations in this minor group are classified into the following unit groups:

- 7521 Wood treaters
- 7522 Cabinet-makers and related workers
- 7523 Woodworking-machine tool setters and operators

## **7521 Wood treaters**

Wood treaters operate and tend wood treatment processing equipment and machines to remove bark from logs, produce wood chips, season, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products.

Tasks include -

- (a) operating and tending kilns, treating tanks and other equipment to dry lumber, prepare and season wood and other wood products, and to treat chemically and impregnate wood products with preservatives;
- (b) monitoring equipment operation, gauges, and panel lights in order to detect deviations from standards and to ensure that processes are operating according to specifications;
- (c) assisting in maintaining processing equipment and machines as required;
- (d) cleaning, lubricating and adjusting equipment;
- (e) transporting materials and products to and from work areas, manually or using carts, hand trucks, or hoists;
- (f) completing and maintaining production reports.

Examples of the occupations classified here:

- Dry kiln operator
- Lumber kiln operator
- Veneer dryer tender
- Wood seasoner
- Wood treater

Some related occupations classified elsewhere:

- Wood processing plant operators – 8172

## **7522 Cabinet-makers and related workers**

Cabinet-makers and related workers make, decorate and repair wooden furniture, carts and other vehicles, wheels, parts, fittings, patterns, models and other wooden products using woodworking machines, machine tools and specialized hand tools.

Tasks include -

- (a) operating woodworking machines, such as power saws, jointers, mortisers and shapers, and using hand tools to cut, shape and form parts and components;
- (b) studying plans, verifying dimensions of articles to be made, or preparing specifications and checking the quality and fit of pieces in order to ensure adherence to specifications;
- (c) trimming joints and fitting parts and subassemblies together to form complete units using glue and clamps, and reinforcing joints using nails, screws or other fasteners;
- (d) making, restyling and repairing various wooden articles, such as cabinets, furniture, vehicles, scale models, sports equipment and other parts or products;
- (e) decorating furniture and fixtures by inlaying wood, applying veneer and carving designs;
- (f) finishing surfaces of wooden articles or furniture.

Examples of the occupations classified here:

- Cabinet-maker
- Cartwright
- Furniture cabinet-maker
- Wheel-wright
- Wood patternmaker

Some related occupations classified elsewhere:

- Carpenters and joiners - 7115
- Craft and related workers not elsewhere classified - 7549
- Wood and related products assemblers – 8219

### **7523 Woodworking machine tool setters and operators**

Woodworking machine tool setters and operators set-up or operate and monitor automatic or semi-automatic woodworking machines, such as precision sawing, shaping, planing, boring, turning and woodcarving machines to fabricate or repair wooden parts for furniture, fixtures and other wooden products.

Tasks include -

- (a) setting-up, programming, operating and monitoring several types of woodworking machines for sawing, shaping, boring, drilling, planing, pressing, turning, sanding or carving to fabricate or repair wooden parts for furniture, fixtures and other wooden products;
- (b) operating preset special-purpose woodworking machines to fabricate wooden products such as coat hangers, mop handles, clothes pins and other products;
- (c) selecting knives, saws, blades, cutter heads, cams, bits, or belts according to workpiece, machine functions and product specifications;
- (d) installing and adjusting blades, cutterheads, boring-bits and sanding-belts, and using hand tools and rules;
- (e) setting and adjusting various kinds of woodworking machines for operation by others;
- (f) reading and interpreting specifications or following verbal instructions.

Examples of the occupations classified here:

- Carving machine operator (wood)
- Furniture production machine operator
- Precision woodworking sawyer
- Wood products machine operator
- Wood turner
- Woodworking lathe operator
- Woodworking machine setter
- Woodworking machine setter-operator
- Woodworking machine set-up operator

Some related occupations classified elsewhere:

- Wood and related products assemblers – 8219



<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>75</b>	<b>Sub-major Group</b>	<b>Food processing, wood working, garment and other craft and related trades workers</b>
<b>752</b>	<b>Minor Group</b>	<b>Wood treaters, cabinet-makers and related trades workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>7521</b>		<b>Wood treaters</b>
	75211	Grader/ Seasoner/ Impregnator/ Treater(wood)
	75212	Foreman(wood preserving/ treating)
	75213	Tankman (wood treating)
	75214	Worker, wood incising
	75215	Dipper, wood treatment/Impregnator, wood
	75216	Operator( kiln: dry (wood)/ kiln: lumber/ machine: painting (wood)/ machine: seasoning (wood)/ machine: tempering (wood)/ machine: treating (wood)/ tank: timber treating)
	75217	Tender, veneer dryer/Wood worker, treating/Worker, wood: treating
<b>7522</b>		<b>Cabinet-makers and related workers</b>
	75221	Foreman(cabinet maker/ coach-body builder)/ Finisher, furniture (wood)
	75222	Maker (charpoy/ furniture (cane/wood))/ladder (wood)/barrel/tank/cask (wood)/coffin/ instrument case/model(wooden)/woodworking/ clog /picture frame/ paper/ pipe (smoking (wood))/ cricket bat/ duce pipe/ hockey stick/ rackets (wood)/ wicket/ sports equipment (wood)/ (Pattern-maker, wood patterns))/
	75223	(Maker/Skiver(monarch))/ Applier, veneer/Bender, Wood/ Builder (vehicle-body/frame (wooden))
	75224	Maker/Wheel/Cart (wright)/ Repairman/ Cooper/ Inlayer, marquetry/ Tenoner/ Carver, plastics (wood/ivory/bone)/Cloth picture frame, pipe (smoking/wood)/ Maker (stamp (rubber)/Pattern-maker, wood patterns/model (wooden)
	75225	Mistry /Maker(cricket bat/hockey/wicket/racket/)
	75226	Polisher (wood)
	75227	Cabinet-maker/Cabinet-maker, furniture
	75228	Stainer, wooden furniture/Varnisher, wooden furniture
	75229	Other sports equipments
<b>7523</b>		<b>Woodworking machine tool setters and operator</b>
	75231	Setter/Turner, woodworking machine
	75232	Setter-operator, carving/ planing/ routing machine (woodworking)
	75233	Setter-operator(saw (fret/jig)/ shaping machine/ lathe (woodworking)/ woodworking machine))
	75234	Sawyer, (precision woodworking/ wood)/ Tuner/ borer( wood)
	75235	Woodworker(dovetailing/ dowelling/. morticing/ sanding/ tenoning)

Unit Group	Sub-unit Group	Description
	75236	Lathe-operator, woodworking
	75237	Machine-operator( bending (wood)/ carving (wood)/ engraving (wood)/ etching (wood)/ finishing (wood)/ furniture production/ marking (wood)/ painting (wood)/ polishing (wood)/ sports equipment (wood)/ toy production (wood)/ wood products/ woodworking/ boring (woodworking)/ cork rounding/ crayon-press/ sanding (wood working)/ wood working)/ Operator( fret-saw/ jigsaw)
	75238	Borer, wood/Machinist, wood products/Operator, machine: drilling (wood)/Operator, set-up: woodworking machine

### **753 Garment and related trades workers**

Garment and related trades workers fit, alter and repair tailored clothing; design, and make textile and fur garments, leather or fur products; repair, renovate and decorate garments, gloves and other products of textile; create patterns for garments; install, repair and replace upholstery of furniture, fixtures, orthopedic appliances and furnishings of automobiles; trim, scrape, tan, buff and dye animal hides, pelts or skins; modify and repair footwear and leather articles.

Tasks performed usually include:

Fitting, altering, repairing tailored clothing; designing and making made-to-measure clothing, from textile fabrics, light leather and other material, or make hats or wigs; make garment style changes; creating precision master patterns for production of garments, other textile, and leather or fur products; sewing together, joining, darning, repairing, renovating and decorating garments, gloves and other products of textile, fur, light leather and other materials and fabricating and assembling sails, awnings and tarpaulins; installing, repairing and replacing upholstery of furniture, fixtures, orthopedic appliances; seats, panels, and other furnishings of automobiles, railway coaches, aircraft, ships and similar items; trimming, scraping, cleaning, tanning, buffing and dyeing animal hides, pelts or skins to produce leather stock and finished furs for making garments and other products; making, modifying and repairing standard, custom or orthopedic footwear and natural or synthetic leather articles.

Occupations in this minor group are classified into the following unit groups:

- 7531 Tailors, dressmakers, furriers and hatters
- 7532 Garment and related patternmakers and cutters
- 7533 Sewing, embroidery and related workers
- 7534 Upholsterers and related workers
- 7535 Pelt dressers, tanners and fellmongers
- 7536 Shoemakers and related workers

#### **7531 Tailors, dressmakers, furriers and hatters**

Tailors, dressmakers, furriers and hatters fabricate, fit, alter and repair tailored or hand-made clothing; They produce made-to-measure clothing such as suits, overcoats, and dresses from textile fabrics, light leather, fur and other material, or make hats or wigs according to customer's and clothing manufacturer's specifications.

Tasks include -

- (a) making overcoats, suits, skirts, shirts, blouses, lingerie, corsetry, hats, wigs and similar garments often to clients' individual requirements;
- (b) selecting textile fabrics, leather or fur pelts matching the desired size, colour, texture, and quality of the garment; cutting to shape them to garment pattern and arranging them on pattern according to the design of the garment;
- (c) making garment style changes, such as tapering trouser legs, narrowing lapels, and adding or removing padding;
- (d) selecting and modifying commercial patterns to customers' and clothing manufacturers' specifications and fit;
- (e) fitting, altering and repairing tailored clothing, dresses, coats and other made-to-measure garments according to customers' requests;
- (f) making and caring for costumes used in theatrical, television and motion picture productions;
- (g) folding, twisting, and draping material, such as satin or silk, or sewing ribbon or cloth in the form of artificial flowers or bows around crown and brim to shape and decorate hats;
- (h) sewing, and fastening together materials and hair strands to make wigs;
- (i) blending shades of hair to give natural appearance to wigs and arranging woven hair in specified position and sewing hair together to form hairpiece;
- (j) making, altering, restyling and repairing fur garments and other fur articles;
- (k) reclaiming furs or skins from old coats, gluing fabric to interior of fur coats and trimming fur garments.

Examples of the occupations classified here:

- Dressmaker
- Furrier
- Milliner
- Tailor

Some related occupations classified elsewhere:

- Textile handicraft worker - 7318
- Sewing machine operator – 8153

## **7532 Garment and related patternmakers and cutters**

Textile, leather and related patternmakers and cutters create precision master patterns for production of garments, other textile, and leather or fur products. They mark, cut, shape and trim textile, light leather and other materials according to blueprints or specifications in the manufacture of garments, hats and caps, gloves and miscellaneous products.

Tasks include -

- (a) creating a master pattern for each size within a range of garment sizes, using charts, drafting instruments, computers, and/or grading devices;
- (b) creating the “blueprint” or pattern pieces for a particular apparel design with the aid of a computer;
- (c) calculating dimensions of patterns according to sizes, considering stretching of material;
- (d) drawing details on outlined parts to indicate where parts are to be joined, as well as the positions of pleats, pockets, buttonholes on garments, decorative stitching on shoe parts or eyelets on canvas products, using computers or drafting instruments;
- (e) positioning templates or measuring materials to locate specified points of cuts or to obtain maximum yields and mark fabric accordingly;
- (f) laying out master pattern on fabric and cutting sample pattern;
- (g) testing patterns by making and fitting sample garments;

- (h) placing patterns on top of layers of fabric and cutting fabric following patterns, using electric or manual knives, cutters or computer numerically controlled cutting devices;
- (i) cutting fabric or fur pelts to make parts for garments and other fur articles;
- (j) trimming excess material or cutting threads off finished products, such as cutting loose ends of a finished product;
- (k) positioning leather on cutting bed of machine, maximizing usage according to skin grain, skin flaws and skin stretch;
- (l) performing pattern-making, marking and cutting tasks in the manufacture of other products such as soft furnishings and canvas goods.

Examples of the occupations classified here:

- Garment cutter
- Glove cutter
- Fur pattern-maker
- Garment pattern-maker

Some related occupations classified elsewhere:

- Textile pattern-making machine operator – 8159

### **7533 Sewing, embroidery and related workers**

Sewing, embroidery and related workers sew together, repair, renovate and decorate garments, gloves and other products of textile, fur, light leather and other materials and fabricate tents sails, awnings and tarpaulins. They work mainly by hand using a needle and thread but may perform some tasks using a sewing machine.

Tasks include -

- (a) repairing defective or damaged portion of cloth or garment by hand, using matching thread and needle;
- (b) removing stitches from garments to be altered, using rippers or razor blades;
- (c) selecting thread according to specifications or colour of parts or dyeing thread to match colour and shade of cloth to be darned;
- (d) patching holes, sewing tears and ripped seams, or darning defects in items, using needles and thread;
- (e) pulling knots to the wrong sides of garments, using hooks;
- (f) trimming ends with scissors to make mended portion look uniform with pattern of cloth;
- (g) sewing ornamental designs by hand over stamped, printed or stencilled patterns on fabric using needle and coloured thread;
- (h) embroidering ornamental designs on cloth by hand or machine using needle and coloured threads;
- (k) softening leather or shoe material with water to prepare it for sewing;
- (l) sewing or gluing decorative trimmings to articles, such as hats, caps, or millinery;
- (o) hand sewing umbrella covers to frames, tacking cover to ribs along seams and sewing corners to tip of rib and sewing ties to outside of cover to hold umbrella when folded;
- (p) fabricating and assembling thick cloth, canvas and like materials into sails, awning, tarpaulins and tents.

Examples of the occupations classified here:

- Embroiderer
- Sewer
- Umbrella maker

Some related occupations classified elsewhere:

- Dressmaker - 7531

- Textiles handicraft worker - 7318
- Sewing machine operator – 8153

## **7534 Upholsterers and related workers**

Upholsterers and related workers install, repair and replace upholstery of furniture, fixtures, orthopedic appliances; seats, panels, convertible and vinyl tops and other furnishings of automobiles, railway coaches, aircraft, ships and similar items with fabric, leather, rexine or other upholstery material. They also make and repair cushions, quilts and mattresses.

Tasks include -

- (a) discussing upholstery fabric, colour, and style with customers and providing cost estimate for upholstering furniture or other items;
- (b) making upholstery patterns from sketches, customer descriptions or blueprints;
- (c) laying out, measuring and cutting upholstery materials following patterns, templates, sketches, or design specifications;
- (d) installing, arranging and securing springs, padding and covering material to furniture frames;
- (e) sewing upholstery materials by hand to seam cushions and joining sections of covering materials;
- (f) sewing rips or tears in material, or creating tufting, using needle and thread;
- (g) tacking, gluing or sewing ornamental trims, buckles, braids, buttons and other accessories to covers or frames on upholstered items;
- (i) laying out, cutting, fabricating and installing upholstery in aircrafts, motor vehicles, railway cars, boats and ships;
- (i) repairing raw hide covering of artificial limbs;
- (j) renovating antique furniture using a variety of tools including ripping chisels, magnetic hammers and long needles;
- (k) collaborating with interior designers to decorate rooms and coordinate furnishing fabrics;
- (l) making quilts, cushions and mattresses.

Examples of the occupations classified here:

- Mattress maker
- Furniture upholsterer
- Vehicle upholsterer
- Orthopedic upholsterer

Some related occupations classified elsewhere:

- Sewing machine operator - 8153

## **7535 Pelt dressers, tanners and fellmongers**

Pelt dressers, tanners and fellmongers trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs for making garments and other products.

Tasks include -

- (a) sorting and grading pelts, hides and skins according to colour, shading, size and density;
- (b) scraping particles of flesh, fat, or protective tissue from skins or pelts to clean and soften them;
- (c) removing hair from skin or hides soaked in lime water;
- (d) preparing hides by curing them with salt;
- (e) removing long, coarse hair from pelts and trimming underlying hair to even length;
- (f) tanning and dressing pelts to improve luster and beauty or restore natural appearance of pelts;
- (g) preparing bark and myrobalan liquor for treating hides or skins;

- (h) treating hides and skins in tanning solution to convert them into leather;
- (i) tinting or dyeing furs to enhance natural shades of fur;
- (j) removing wrinkles and setting grains on wet hide or skin;
- (k) dressing and applying dyes and stains to leather;
- (l) stretching and smoothing dressed pelts;
- (m) seasoning leather by applying chemical solution or oil evenly on surface by hand brush and allowing it to dry in open air.

Examples of the occupations classified here:

- Fellmonger
- Pelt grader
- Tanner

Some related occupations classified elsewhere:

- Tanning machine operator - 8155

## **7536 Shoemakers and related workers**

Shoemakers and related workers make, modify and repair standard, custom or orthopedic footwear and natural or synthetic leather articles, such as luggage, handbags and belts, (except for leather garments, hats and gloves), or participate in the manufacture of shoes and related goods. They decorate, reinforce or finish shoes, luggage, handbags and belts.

Tasks include -

- (a) making, modifying and repairing standard footwear to meet individual requirements;
- (b) making, modifying and repairing orthopedic or therapeutic footwear according to doctors' prescriptions, or modifying existing footwear for people with foot problems and special needs;
- (c) repairing belts, luggage, purses and similar products;
- (d) taking plaster casts of deformed legs or foot to prepare drawings;
- (e) preparing inserts, heel pads, and lifts from casts of customers' feet;
- (f) studying drawings and other specifications to make footwear according to customer's needs;
- (g) studying work orders and/or shoe part tags to obtain information about workloads, specifications, and the types of materials to be used;
- (g) checking the texture, colour, and strength of leather to ensure that it is adequate for a particular purpose;
- (i) cutting out, shaping and padding parts for making leather articles;
- (j) sewing rips or patching holes to repair articles, such as purses, belts, shoes, and luggage;
- (k) removing and examining shoes, shoe parts, and designs to verify conformance to specifications such as proper embedding of stitches in channels;
- (l) attaching accessories or ornamentation to decorate or protect products;
- (m) making and repairing articles such as saddles and harnesses for animals, luggage, handbags, brief-cases, leather bags, belts and other accessories.

Examples of the occupations classified here:

- Cobbler
- Saddler
- Shoemaker
- Orthopedic shoemaker

Some related occupations classified elsewhere:

- Furrier - 7531
- Hatter - 7531
- Shoe production machine operator - 8156

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>75</b>	<b>Sub-major Group</b>	<b>Food processing, wood working, garment and other craft and related trades workers</b>
<b>753</b>	<b>Minor Group</b>	<b>Garment and related trades workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>7531</b>		<b>Tailors, dressmakers, furriers and hatters</b>
	75311	Tailor/Darzi/(bespoke/ garment (made-to-measure)/garment (ready-to-wear)/ instrument covers/theatrical/Kaj button/dress/gown/alteration/fur)/ Tailor, theatrical
	75312	Former, wool/felt (hood)/ (Coner, hat forms)/Maker, cap/hat (straw)/
	75313	Mistress, wardrobe (stage and studio)/' Milliner
	75314	Cutter, garments (leather)
	75315	Grader/ Matcher/ Sorter/ Cutter/ Nailer/ Trimmer /Furrier
	75316	Dressmaker/Dressmaker, theatrical/Hatter
	75317	Maker( blouse/ corset/ gown/Maker, lingerie/ shirt/Master, wardrobe)
<b>7532</b>		<b>Textile, leather and related patternmakers and cutters</b>
	75321	Copyist, jacquard design
	75322	Marker, garment
	75323	Pattern-maker( caps/ fur/ garment/ gloves/ hats/ sails/ tents)
	75324	Pattern-maker( mattresses/ upholstery)
	75325	Cutter (garment/ glove (leather)/mattress/ sail/ tent/ cover/ seat/ umbrella/ upholstery)
	75326	Splicer, bias
	75327	Cutter, pattern/Cutter, tailor's;
	75328	Patternmaker, umbrellas
<b>7533</b>		<b>Sewing, embroidery and related workers</b>
	75331	Coverer, roller (leather)
	75332	Maker, (cycle cover/ pocket (motor cover)/other covers)
	75333	Repairer, cloth/ Seamstress
	75334	Sewer (drapery/elastic/ footwear (hand)/ fur (hand)/ garments/ textile/ hat/ leather/ leather hand/ mattress / upholstery)
	75335	Darner (excluding carpets)/ Embroiderer
	75336	Maker (sail, tent and awning/ umbrella/ artificial flower/ carpet/ carpet (hand knotting)/ toy (dolls and stuffed toys)/ toy (soft toys))
	75337	Repairman, umbrella/ Carpetman (ship)/ Darner, carpet/ Clipper, carpet
<b>7534</b>		<b>Upholsterers and related workers</b>
	75341	Trimmer, coach
	75342	Upholsterer (furniture/ soft furnishing/ aircraft/ automobile/ railway carriage)/ Upholsterer, orthopedic/Upholsterer, vehicle
	75343	Maker (bedding/mattress/ quilt)



Unit Group	Sub-unit Group	Description
<b>7535</b>		<b>Pelt dressers, tanners and fellmongers</b>
	75351	Classer/grader( hide/skin)/ Classer, pelt
	75352	Foreman leather(beam/hide house/finishing room/split and drum room /tan room)
	75353	Grader, pelt/ Fellmonger
	75354	Flesher/dehairer( hide)/ Flesher, pelt/ Splitter, hide/ Buffer, leather/ Currier, leather/ Dresser, pelt
	75355	Dyer (pelt/ stainer/ leather/ vat (leather/pelt))
	75356	Finisher/ Pickier/ Plucker/trimmer( pelt)/ Polisher, leather/ Presser, hide/skin
	75357	Puller, pelt/ Shaver, fur/ Sleeker, feather/ Stainer, leather/ Stretcher( leather/pelt)/ Tanner (hide/leather)
	75358	Dehairer, hide
<b>7536</b>		<b>Shoemakers and related workers</b>
	75361	Attacher/Builder/Burnisher/ Cementer/ Channeller/rounder (Shoe heel and
	75362	Cobbler/ Cutter (leather/ shoe (hand)/ welt)
	75363	(Eyeleteer/Finisher/ Fitter/preparer/ Fitter/ Folder/ Grader) (sole/uppers)/ Laster,shoes(sole/uppers)
	75364	Maker (shoe/ shoe (orthopedic/sport))/ Pattern-maker, shoe/ Preparer, shoe (uppers)
	75365	(Presser/Pressman/ Skiver/Socker/ Splitter/ Stitcher/Trimmer/Repairer/Finisher), Shoe
	75366	Maker (bridle/ harness/ horse collar/ panel (saddlery)/ saddle/ whip/ bladder/football\ volleyball/ (hockey/cricket )ball/sports equipment (leather)/ leather goods/ Bag maker (leather)
	75367	Sewer, saddle/ Mistry, leather ball makers/ <b>Finisher, harness/Repairer, shoe/Skiver, shoe/Socker, shoe/Splitter, shohe/Taker-off, shoe, finishing/ Trimmer, shoe finishing.</b>
	75368	Grader, footwear: soles/Maker( footwear/ harness/ leather goods/ orthopedic: footwear/ sports equipment: footwear/ surgical footwear)/Polisher, footwear/Presser, footwear: soles/Repairer, footwear/Rounder, footwear/ Saddler/Sorter, footwear/Stainer, footwear

## **754 Other craft and related workers**

Other craft and related workers work under the surface of water, using underwater breathing apparatus; position, assemble, and detonate explosives; inspect and test, raw materials, manufactured components and products; remove unwanted organisms to prevent damage to crops and buildings and other structures. This group includes other trade and craft occupations not classified elsewhere in major group 7, Craft and related trades workers.

Tasks performed usually include:

Ensuring safety precautions; performing various underwater tasks, loading explosives into blast holes; mixing chemicals according to instructions; operating and monitoring equipment for spraying pests and weeds.



Occupations in this minor group are classified into the following unit groups:

- 7541 Underwater divers
- 7542 Shotfirers and blasters
- 7543 Product graders and testers (excluding foods and beverages)
- 7544 Fumigators and other pest and weed controllers
- 7549 Craft and related workers not elsewhere classified

### **7541 Underwater divers**

Underwater divers work under the surface of water, using underwater breathing apparatus to inspect, install, repair, and remove equipment and structures, conduct tests or experiments, rig explosives, photograph structures or marine life or find and recover missing items and persons.

Tasks include -

- (a) taking safety precautions, such as monitoring dive lengths and depths, and registering with authorities before diving expeditions begin;
- (c) checking and maintaining diving equipment such as helmets, masks, air tanks, diving suits, harnesses and gauges;
- (c) descending into water with the aid of diver helpers, using scuba gear or diving suits
- (d) working under water to lay and repair bridges, piers and harbor-wall foundations;
- (e) inspecting for suspected damage and making minor repairs to ships' hulls and underwater installations;
- (f) reporting on condition of wrecked ships;
- (g) removing underwater obstructions;
- (h) drilling holes for underwater blasting;
- (i) performing various underwater tasks connected with salvage work or recovering dead bodies;
- (j) communicating with workers on the surface while underwater, using signal lines or telephones;
- (k) obtaining information about diving tasks and environmental conditions.

Examples of the occupations classified here:

- Salvage frogman
- Underwater worker

### **7542 Shotfirers and blasters**

Shotfirers and blasters, position, assemble, and detonate explosives at mining, quarrying and demolition sites.

Tasks include -

- (a) ensuring workplace safety and explosives handling, storage and transport procedures and regulations are followed;
- (b) planning and giving instructions for the lay out, depth and diameter of blast holes;
- (c) checking depth and cleanliness of blast holes;
- (d) determining quantity and type of explosives to be used;
- (e) loading explosives into blast holes;
- (f) assembling, or directing other workers to assemble, primer charges using detonators and explosive cartridges, and attaching electrical wires, fuses and detonating cords to primers;
- (g) connecting wires, fuses and detonator cords into series, testing electrical circuits and repairing malfunctions, and connecting series to blasting machines;
- (h) covering charges, filling blast holes with rock dust, sand and other materials, and tamping material to compact charges;

- (i) ensuring all explosives are detonated, and reporting and attending to misfires;
- (j) declaring blast areas safe before and after detonation of explosives;
- (k) compiling and maintaining records about usage of explosives in compliance with laws and regulations.

Examples of the occupations classified here:

- Blaster
- Powder man
- Powder monkey
- Shotfirers

Some related occupations classified elsewhere:

- Driller (mining) - 8111
- Driller (oil or gas well) - 8113
- Mining Supervisor - 3121
- Mining labourer - 9311
- Quarry labourer - 9311

### **7543 Product graders and testers (except foods and beverages)**

Product graders and testers (except foods and beverages) inspect, test, sort, sample, and weigh raw materials, manufactured components and non-comestible goods produced or sold, to ensure compliance with quality standards and to identify defects, wear, and deviations from specifications, and to grade and classify them according to their quality.

Tasks include -

- (a) inspecting and testing products, parts and materials for conformity with specifications and standards;
- (b) grading and classifying natural textile fibres for spinning and winding;
- (c) discarding or rejecting products, materials, and equipment not meeting specifications;
- (d) analyzing and interpreting blueprints, data, manuals, and other materials to determine specifications, inspection and testing procedures;
- (e) notifying supervisors and other personnel of production problems, and assisting in identifying and correcting these problems;
- (d) recording inspection or test data, such as weights, temperatures, grades, or moisture content, and quantities inspected or graded;
- (g) marking items with details such as grade and acceptance or rejection status;
- (h) measuring dimensions of products using instruments such as rulers, calipers, gauges, or micrometers;
- (i) analyzing test data and making computations as necessary to determine test results.

Examples of the occupations classified here:

- Quality inspector
- Product grader
- Wool classer

Some related occupations classified elsewhere:

- Product safety inspector - 3257
- Fruit grader - 7515
- Vegetable grader - 7515
- Fur grader - 7531
- Pelt grader - 7535

## **7544 Fumigators and other pest and weed controllers**

Fumigators and other pest and weed controllers use chemicals to remove harmful insects, small animals, wild plants and other unwanted organisms to prevent damage to crops and to buildings and other structures and their surroundings and to prevent health risks.

Tasks include -

- (a) operating and monitoring equipment for spraying pests and weeds;
- (b) mixing chemicals according to instructions;
- (c) covering areas to specified depths with pesticides, applying knowledge of weather conditions, droplet sizes, elevation-to-distance ratios, and obstructions;
- (d) spraying or releasing chemical solutions or toxic gases and setting traps to kill pests and vermin, such as mice, termites, and roaches;
- (e) lifting, pushing, and swinging nozzles, hoses, and tubes in order to direct spray over designated areas;
- (f) filling sprayer tanks with water and chemicals;
- (g) cleaning and servicing machinery to ensure operating efficiency.

Examples of the occupations classified here:

- Fumigator
- Pest controller
- Weed controller

Some related occupations classified elsewhere:

- Aerial crop sprayer - 3153

## **7549 Craft and related workers not elsewhere classified**

This group covers craft and trade occupations not classified elsewhere in major group 7, Craft and related trades workers. For instance, the group includes those who mould, slice, grind and polish optical lenses.

In such cases tasks would include:

- (a) heating, moulding and pressing optical glass to make lens blanks;
- (b) grinding and polishing lens blanks.

Examples of the occupations classified here:

- Optical lens finisher
- Optical lens moulder

<b>7</b>	<b>Major Group</b>	<b>Craft and related trades workers</b>
<b>75</b>	<b>Sub-major Group</b>	<b>Food processing, wood working, garment and other craft and related trades workers</b>
<b>754</b>	<b>Minor Group</b>	<b>Other craft and related workers</b>

<b>Unit Group</b>	<b>Sub-Unit Group</b>	<b>Description</b>
<b>7541</b>		<b>Underwater divers</b>
	75411	Diver (salvage/oyster/pearl/sponge)/ Diver, abalone/Diver, commercial/Diver, shell fish/ Diver, underwater
	75412	Frogman/Frogwoman, salvage
	75413	Underwater worker
	75414	Welder, underwater

Unit Group	Sub-unit Group	Description
<b>7542</b>		<b>Shotfirers and blasters</b>
	75421	Loader, gun perforator
	75422	Perforator, gun
	75423	Shotfirers
	75424	Blaster
	75425	Monkey, powder
	75426	Powder man/Powder woman
<b>7543</b>		<b>Product graders and testers (except foods and beverages)</b>
	75431	Inspector (complaint control / labour & welfare/ / loco and carriage /post offices /rationing/ quality (any other specialism)/quality (fabrics))
	75432	Controller, leer (glass manufacturing) / checker, ceramic/ classifier, tyre / picker, finishing department (textile)
	75433	Assistant, quality assurance/ Controller, quality/ Incharge, quality control
	75434	Tester (armature)/ Viewer (quality inspection)/ Sorter (cigarettes)/ Sadhai wala
	75435	Classer, wool/Examiner, cloth/Examiner, fabrics/Grader, products/Grader, textile
	75436	Inspector, electrical and tester, products/Inspector, electronic and tester products/Inspector, products (except food and drinks)
	75437	Woolclasser
<b>7544</b>		<b>Fumigators and other pest and weed controllers</b>
	75441	Fumigator
	75442	Pest controller
	75443	Weed controller
	75444	Contractor, spraying: pest or weed control/Controller, pest Controller, weed/Exterminator
	75445	Officer, pest management
	75446	Sprayer, crops (except aerial)/Sprayer, herbicide/Sprayer, insecticide/Sprayer, malaria control/Sprayer, pesticide/Sprayer, weed
	75447	Technician, pest control
<b>7549</b>		<b>Craft and related workers not elsewhere classified</b>
	75491	Moulder, glass (lens)
	75492	Polisher, glass (lens/plate)
	75493	Cutter/Slitter (optical glass)
	75494	Arranger, flower/Finisher, optical lens
	75495	Florist, arranging flowers
	75496	Grinder, glass lens
	75497	Moulder, optical lens
	75498	Slicer, optical glass

## Major Group 8

### Plant and Machine Operators, and Assemblers

Plant and machine operators, and assemblers operate and monitor industrial and agricultural machinery and equipment on the spot or by remote control, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble products from component parts according to strict specifications and procedures.

The work mainly calls for experience with and an understanding of industrial and agricultural machinery and equipment as well as an ability to cope with machine-paced operations and to adapt to technological innovations. Most occupations in this major group require skills at the second ISCO skill level.

Tasks performed by plant and machine operators and assemblers usually include:

Operating and monitoring mining or other industrial machinery and equipment for processing metal, minerals, glass, ceramics, wood, paper, or chemicals; operating and monitoring machinery and equipment used to produce articles made of metal, minerals, chemicals, rubber, plastics, wood, paper, textiles, fur, or leather, and which process foodstuffs and related products; driving and operating trains and motor vehicles; driving, operating and monitoring mobile industrial and agricultural machinery and equipment; assembling products from component parts according to strict specifications and procedures. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 81 Stationary plant and machine operators
- 82 Assemblers
- 83 Drivers and mobile plant operators

### 81 Stationary plant and machine operators

Stationary plant and machine operators operate and monitor, on the spot or by remote control, industrial plant and machinery and equipment that are stationary, or for which mobility is not an integral part of operation.

The work mainly calls for experience with and an understanding of the industrial plant, machinery or equipment being operated and monitored. Ability to cope with machine-paced operations and to adapt to innovations in machinery and equipment is often required.

Tasks performed by workers in this sub-major group usually include:

Setting up, operating and monitoring a variety stationary plant and machinery; detecting malfunctions and taking corrective action; examining outputs for defects and conformity to specifications and adjusting machine settings accordingly; performing maintenance, repairs and cleaning; recording data and maintaining production records. Supervision of other workers may be included.

Occupations in this sub-major group are classified into the following minor groups:

- 811 Mining and mineral processing plant operators
- 812 Metal processing and finishing plant operators
- 813 Chemical and photographic products plant and machine operators
- 814 Rubber, plastic and paper products machine operators

- 815 Textile, fur and leather products machine operators
- 816 Food and related products machine operators
- 817 Wood processing and papermaking plant operators
- 818 Other stationary plant and machine operators

## **811 Mining and mineral processing plant operators**

Mining and mineral processing plant operators operate and monitor plant and machinery which extract rock and minerals from the earth, process minerals and stone, drill wells and bores, and manufacture and finish cement and stone products.

Tasks performed usually include:

Setting up, operating and monitoring a variety of mining and mineral processing plant and machinery such as drilling rigs and auxiliary machines and equipment, continuous mining machinery, and cutting, crushing, grinding, pumping and mixing plant and machinery; operating washing, separating, extracting and combining equipment to remove waste and recover minerals; operating plant and machinery to make cement, concrete, artificial stone, and precast concrete and stone products; monitoring the performance of a variety of plant and machinery, detecting malfunctions and taking corrective action; performing plant and machinery maintenance, repairs and cleaning; and maintaining production records.

Occupations in this minor group are classified into the following unit groups:

- 8111 Miners and quarriers
- 8112 Mineral and stone processing plant operators
- 8113 Well drillers and borers and related workers
- 8114 Cement, stone and other mineral products machine operators

### **Notes**

Mining Supervisors are classified in Unit Group 3121.

## **8111 Miners and quarriers**

Miners and quarriers operate plant, machinery and hand tools to extract rock, minerals and non-metallic deposits from underground and surface mines and quarries.

In such cases tasks would include:

- (a) positioning, operating and monitoring the performance of a variety of underground and surface mining equipment including continuous mining, cutting and channelling plant;
- (b) setting up and operating drilling equipment in underground and surface mines and quarries;
- (c) operating machinery and using tools to remove loosened rock, ore, coal and other deposits;
- (d) preparing, fitting and installing supports in underground workings including rock bolts;
- (e) operating machinery to open new shafts, drives, air vents and rises;
- (f) operating auxiliary plant such as pumps to expel air, water and mud;
- (g) performing minor maintenance and repairs and lubricating and cleaning plant, machines and tools;
- (h) completing records detailing operations completed during shifts;
- (i) collecting mineral samples for laboratory analysis.

Examples of the occupations classified here:

- Bogger Operator
- Continuous Miner Operator
- Dragline Operator (mining)
- Mining Plant Operator
- Miner

- Quarrier
- Roof Bolter (mining)

Some related occupations classified elsewhere:

- Blaster - 7542
- Driller (oil or gas well) - 8113
- Mining Labourer - 9311
- Mining Supervisor - 3121
- Quarry Labourer - 9311
- Shotfirer – 7542

## **8112 Mineral and stone processing plant operators**

Mineral and stone processing plant operators operate and monitor machinery and equipment for processing rocks, minerals and stone to recover refined products for immediate use or further processing.

Tasks include –

- setting up and operating stationary plant and machinery which grind, crush, cut, saw and slice rocks, minerals and stones according to the specifications for the job;
- positioning blocks and slabs of stone onto machines for sawing, cutting and further working;
- monitoring and maintaining the flow of unprocessed rocks, minerals and stones from conveyors into machines;
- operating washing, separating, leaching, precipitating, filtering, extracting and combining equipment to remove waste material and recover minerals;
- combining mineral ores with solvents to facilitate further processing;
- separating metal and mineral concentrates from ore and alluvial deposits by thickening, flotation, gravity separation, filtration, and or magnetic and electrostatic separation;
- observing meters, gauges and control panels, and adjusting valves and controls to ensure the safe and efficient operation of equipment, and detecting malfunctions, and assisting with plant and machinery maintenance and repair;
- examining processed materials visually or with hands to ensure compliance with established standards and job specifications, and may collect samples for testing in laboratories;
- recording information about processing completed during shifts, such as quantities, types and dimensions of materials produced;
- sorting, stacking and moving processed minerals and stone for packaging, further processing or shipping.

Examples of the occupations classified here:

- Coal washer
- Crusher operator (mineral or stone processing)
- Flotation worker (mineral processing)
- Gold precipitator
- Machine operator (stone cutting or processing)
- Milling machine operator (minerals)

Some related occupations classified elsewhere:

- Stone Cutter (hand or hand-powered tools) – 7113
- Stonemason - 7113
- Stone Polisher (hand or hand-powered tools) - 7113
- Stone Splitter (hand or hand-powered tools) - 7113
- Machine Operator (cast stone production) - 8114
- Stone Polishing Machine Operator – 8114

### **8113 Well drillers and borers and related workers**

Well drillers and borers and related workers position, assemble and operate drilling machinery and related equipment to sink wells, extract ore, liquids and gases or for a variety of other purposes.

Tasks include -

- (a) dismantling, moving and assembling drilling rigs and auxiliary equipment;
- (b) assembling and dismantling pipes, casings and drill heads, and replacing dysfunctional equipment;
- (c) operating controls to lower and raise drill pipes and casings in and out of wells, regulate pressure in the well and control the speed of tools;
- (e) preparing drilling fluid and checking the operation of pumps to ensure adequate circulation of fluid in drill pipe and well;
- (e) monitoring gauges and other indicators and listening to equipment to detect malfunctions and unusual well conditions, and determining the need to change drilling or equipment;
- (f) maintaining, adjusting, repairing and cleaning drilling rigs, hoisting and other machinery;
- (g) maintaining records of drilling and servicing operations;
- (h) operating machines and tools to extract dust, cuttings and lost and broken drilling equipment from holes and wells;
- (i) closing and sealing wells no longer in use;
- (j) may supervise and train crew members.

Examples of the occupations classified here:

- Boring equipment operator
- Bore sinker
- Derrickman
- Derrick operator
- Developmental driller
- Directional driller
- Drilling rig operator
- Jumbo operator
- Power-tong operator
- Toolpusher
- Tourpusher

Some related occupations classified elsewhere:

- Blaster - 7542
- Miner - 8111
- Quarrier – 8111

### **8114 Cement, stone and other mineral products machine operators**

Cement, stone and other mineral products machine operators operate and monitor machines for manufacturing and finishing precast concrete, bitumen, and stone products, and making cast stone for building purposes.

Tasks include -

- (a) operating extrusion, moulding, mixing, pumping, compacting, grinding and cutting machinery to manufacture and finish precast concrete and stone products;
- (b) operating plant to produce cement, lime and clinker, including loading and unloading ingredients and operating continuous feed equipment such as pumps and conveyors;
- (c) operating plant and machines which weigh and mix sand, gravel, cement, water and other ingredients to make concrete;



- (d) operating plant and machinery which assembles and fills moulds with concrete and artificial stone mixtures, removes castings from moulds and finishes surfaces of precast products;
- (e) cutting, grinding, drilling, sandblasting and polishing concrete products and stone blocks, slabs and products to the specifications for the job;
- (f) checking production plans and specifications to determine and select materials, ingredients, procedures, components, settings and adjustments for extrusion, moulding, mixing and compacting machines;
- (g) monitoring plant and machines during operation by observing instruments such as temperature and pressure gauges, and adjusting controls and reporting malfunctions as necessary;
- (h) collecting and examining samples of mixtures and finished products for conformity to specifications and adjusting machine settings accordingly;
- (i) checking and maintaining production records, including information about quantities, dimensions and types of materials and goods produced;
- (j) arranging and assisting with plant and machinery maintenance and repair.

Examples of the occupations classified here:

- Cast-concrete products machine operator
- Cast-stone products machine operator
- Concrete production machine operator
- Industrial diamond polishing machine operator
- Stone polishing machine operator

Some related occupations classified elsewhere:

- Stone polisher (hand or hand-powered tools) - 7113
- Clay brick and tile kiln operator - 8181
- Kiln operator (cement production) - 8114
- Stone processing machine operator - 8112
- Extruding clay press operator – 8181

#### Notes

Examples of products produced by operators of plant and machines in this unit group include: mixed concrete for use in civil engineering and construction projects, flagstones, concrete bricks and tiles, fencing posts, moulded pipe sections and trench liners, concrete railway sleepers, walling and partition slabs, building components, cable conduits, fume and dust extraction conduits, abrasive wheels and outdoor furniture.

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>811</b>	<b>Minor Group</b>	<b>Mining and mineral processing plant operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8111</b>	<b>Miners and quarries</b>	
	81111	Header,main(mining)
	81112	Machine-operator (cutting/drilling/quarry (mining)/ Mucker (mine/quarry)
	81113	Miner(surface/underground/ blower down/ coal/ hydraulic (placer mining)/ salt
	81114	Piler, mine/ Sirdar collery
	81115	Quarrier/ Clipper, mine
	81116	Drawer, prop/timber (mine/quarry) / Timbering worker(quarry/mine/underground)

Unit Group	Sub-unit Group	Description
	81117	Machine-operator, channeling (mine)
	81118	Bolter, roof: mining/Driller, mining/Miner, diamond/Miner, gold/Operator (bogger/ continuous miner/ dragline: mining/ jumbo/ mining plant)/Robber, timber: mine Worker, timbering: mine/Worker, timbering: quarry/Worker, timbering: underground
<b>8112</b>		<b>Mineral and stone-processing-plant operators</b>
	81121	Machine-operator (crushing (coal/mineral/ore/rock/stone) / milling/pulverizing/ washing (minerals/stone)) Operator( machine: magnetic ore processing/ mineral-processing plant/ stone-processing plant )
	81122	Operator ( breaker (gyratory)/ cone (mine)/ gravitation equipment (mine)/ lathe (stone)
	81123	Tender, jig/ Washer, coal/ Worker, cyanide: separation equipment
	81124	Attendant (hammer mill and belt conveyor/ screening plant (mining)/ tippler)
	81125	Machine-operator (cutting/drilling/grinding/ planning/ sawing/ splitting (stone)
	81126	Separator/screener, minerals
	81127	Polisher, granite /marble/slate/stone/ Operator ( concrete-mixing plant)
	81128	Floatation worker, minerals/ Precipitator (gold/silver) /Cupola man, dolomite plant
<b>8113</b>		<b>Well drillers and borers and related workers</b>
	81131	Driller/borer, well (except oil and gas)
	81132	Operator, drilling equipment (rotary)/fishing tool/mud plant/derrick (oil and gas wells)
	81133	Pumper, oil well/ Tester, pipe (petrol driller)
	81134	Foreman, petroleum production/ Foreman, field (petroleum production)
	81135	Cleaner, well (petrol and gas)
	81136	Operator, pulling equipment (oil and gas wells)
	81137	Puller, casing/well (oil and gas wells) / Pulling gang man
	81138	Caser/driller,cable (oil and gas wells)/ Derrickman//Digger, well/Driller, developmental/Driller, directional/Operator, earth-boring machinery: construction/ Operator, power-tong Operator, pulling equipment: oil and gas wells/Sampler, core/Sinker, bore/Sinker, well/Toolpusher/Tourpusher
<b>8114</b>		<b>Cement, stone and other mineral products machine operators</b>
	81141	Machine-operator (fibro/asbestos-cement products/ mineral products/ stone products/ abrasive-coatings production/ stone polishing)
	81142	Miller (cement manufacturing)
	81143	Lathe-operator, working/ polishing (stone)
	81144	Machine-operator, artificial stone products / cast-stone products/ cast-concrete products /cutting (mosaic)

Unit Group	Sub-unit Group	Description
	81145	Machine-operator, carving/cutting/engraving/finishing (stone/concrete)
	81146	Machine-operator, production/polishing (industrial diamonds/ polishing)
	81147	Operator ( concrete-mixing plant)
	81148	Cutter-polisher, industrial diamonds/Operator, machine: cement products Operator, machine: concrete production/Operator, machine: industrial-diamond production/Operator, machine: polishing (industrial diamond) Polisher, industrial diamonds/Sawyer, industrial diamonds

## 812 Metal processing and finishing plant operatorsh

Metal processing and finishing plant operators, operate and monitor single function process control machinery and equipment to control the conversion, processing and finishing of mineral ores and metals.

Tasks performed usually include:

Setting up, preparing and adjusting metal and ore processing and finishing machinery; co-ordinating and monitoring the operation of a particular aspect of metal processing production and finishing; verifying equipment for malfunctions, monitoring gauges, carrying out routine operating tests and arranging for maintenance; checking, testing and analyzing sample products; recording data and writing production logs.

Occupations in this minor group are classified into the following unit groups:

8121 Metal processing plant operators

8122 Metal finishing, plating and coating machine operators

### 8121 Metal processing plant operators

Metal processing plant operators, operate, monitor, adjust and maintain, single process machinery and equipment to process and convert mineral ores and refine, harden, roll and extrude metals.

Tasks include -

- setting up, preparing and adjusting mineral ore and metal processing machinery to carry out one step in the overall mineral ore or metal processing operation;
- operating single-function machinery to grind, separate, filter, mix, treat, cast, roll, refine or otherwise process metals and mineral ores;
- observing gauges, meters, computer printouts, video monitors and products to ensure correct operation of machine and verify specified processing conditions;
- adjusting equipment, valves, pumps, controls and process equipment;
- controlling the preparation, measuring and feeding of raw materials and processing agents into plant;
- controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment;
- verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance;
- analyzing sample products, performing tests, recording data and writing production logs.

Examples of the occupations classified here:

- Ladle pourer
- Steel roller
- Metal heat treating operator
- Metal extrusion plant operator

Some related occupations classified elsewhere:

- Blast furnace operator - 3135
- Central control caster - 3135
- Rolling mill control operator – 3135
- Metal coating machine operator – 8122

## **8122 Metal finishing, plating and coating machine operators**

Metal finishing-, plating- and coating-machine operators operate and monitor equipment which finishes, plates and coats metal articles or parts, in order to give them improved resistance to corrosion and abrasion, for decorative purposes, or to impart electrical or magnetic properties.

Tasks include -

- (a) operating and monitoring equipment which cleans metal articles in preparation for electroplating, galvanising, enamelling or similar processes;
- (b) operating and monitoring electroplating equipment;
- (c) operating and monitoring hot-dip equipment used to coat iron and steel products;
- (d) operating and monitoring machines which automatically coat wire with non ferrous metal;
- (e) operating and monitoring equipment used to spray molten metal or other substances on metal products to provide a protective or decorative coating or to build up worn or damaged surfaces;
- (e) operating and monitoring equipment used to impart a rust-resistant finish to metal articles by treating them with chemicals and heating them;
- (g) checking proper thickness of plating using micrometers, callipers or other devices recording data and writing production logs;
- (h) preparing and mixing metalizing solutions according to formulas or specifications.

Examples of the occupations classified here:

- Metal coating machine operator
- Metal finishing machine operator
- Metal plating machine operator

Some related occupations classified elsewhere:

- Metal processing control operator – 3135

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>812</b>	<b>Minor Group</b>	<b>Metal processing and finishing plant operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8121</b>		<b>Metal Processing plant operators</b>
	81211	Gasman/keeper/ skimmer/ pitman/tapper (ore smelting) /Charger, furnace (ore smelting and refining)
	81212	Minder, stove (blast furnace)/ Machine-operator, pig casting (open hearth)/ Operator, bell (blast furnace)
	81213	Fireman (metal melting)/ Feeder (corrugate iron)/ Shearman/Straightener/Slitter (metal)
	81214	Melter, metal/ Operator, cupola/ Tapper, furnace (metal melting)/ Heater, hot rolling mill/ Operator, oven/descaler (metal)/ Designer, roll (rolling mill)/ Chipper (blooms/billets)/ Doubler (metal sheets)
	81215	Operator, rolling mill (metal (finished products)/ metal (unfinished products)/ non-ferrous metal/seamless pipe and tube/ steel (cold-rolling/ steel (continuous)/ steel (hot-rolling/billet/ blooming/cogging/ Furnace-operator, melting/ reheating (metal) (metal (cupola furnace)/ die casting/ extrusion (metal)/ forge/ hot mill/ hydraulic forging/ malleable casting)
	81216	Operator, heat-treating plant / carbonation equipment (metal)/Machine-operator ( mixing /tempering (metal))/ Furnace-operator, heat-treating / annealing / hardening (metal)
	81217	Annealer (wire drawing)/ Carboniser/Hardener/Nitrider/ Normaliser (metal)
	81218	Machine-operator, drawing ((metal/wire)/ drawing (seamless pipe/tube)/ extruding (metal)/ Classifier, aluminum/Dryer, asbestos /Ladler, /metal/Manipulator, rolling-mill/Operator extrusion press / foil-winding machine/ furnace: annealing (metal) / furnace: case-hardening (metal) / furnace: puddling/ ladle: pouring (metal)/ machine: drawing (seamless tube)/, machine: lead production/ machine: metal processing/ machine: pouring (metal) / machine: refining (metal) / plant: metal extrusion/ press: extruding (metal) / slurry equipment: metal/ uranium classifier/Pourer, ladle/Refiner, lead/Refiner, metal/Refiner, steel/Roller, steel/Shredder, scrap metal/ Machine-operator, casting (continuous rod (non-ferrous metalboring)/ (die (non-ferrous metal)/ (metal)/Nitride (metal)
<b>8122</b>		<b>Metal finishing , plating and coating machine operators</b>
	81221	Examiner (cilinders)/( metal products)
	81222	Machine-operator(degreasing/ polishing/electroplating/plating/coating/galvanizing) (metal/wire)
	81223	Machine-operator (dipping/ laminating/painting/ spraying/bluing/ refining) (metal)/ Machine-operator finishing (cast metal articles)/Plater, wire (machine)
	81224	Operator, sandblast lug equipment (metal)
	81225	Sandblaster (castiligs)/ Sherardiser/ Eleciroplater/ Anodiser/ Bronzer/ Dipper (tin/zinc/ Oxidiser/Tinner/Galvaniser/ <b>Metal article</b> )

### **813 Chemical and photographic products plant and machine operators**

Chemical and photographic products plant and machine operators operate and monitor machines which process a variety of chemicals and other ingredients to produce pharmaceuticals, toiletries, explosives and photographic or other chemical products.

Tasks performed usually include: operating and monitoring machines and equipment which blend, mix, package and otherwise process chemicals and chemical products to give them the desired properties for further industrial production, or to make finished products. Supervision of other workers may be included.

Occupations in this minor group are classified into the following unit groups:

- 8131 Chemical products plant and machine operators
- 8132 Photographic products machine operators

Some related occupations classified elsewhere:

- Chemical processing plant controllers - 3133
- Petroleum and natural gas refinery operators - 3134

#### **8131 Chemical products plant and machine operators**

Chemical products plant and machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.

Tasks include -

- (a) Setting up, starting, controlling, adjusting and stopping machines and plant;
- (b) Monitoring reaction processes and transfers of products in conformance with safety procedures;
- (c) Monitoring meters, gauges and electronic instrumentation on one or more chemical or formulation units, such as mixers, kettles, blenders, dryers, tableting, encapsulation, granulation and coating machines;
- (d) Measuring, weighing and loading chemical ingredients following formulation cards;
- (e) Taking samples and performing routine chemical and physical tests of products and recording production data;
- (f) Cleaning and performing minor repairs to machines and plant.

Examples of the occupations classified here:

- Blender/petroleum and natural gas refining (ethyl) operator
- Still/petroleum and natural gas refining machine operator
- Pharmaceutical and toiletry products machine operators
- Candle production machine operator
- Explosive products machine operator

Some related occupations classified elsewhere:

- Chemical processing plant controllers -3133
- Petroleum and natural gas refining plant operators – 3134

## 8132 Photographic products machine operators

Photographic-products machine operators operate and monitor equipment which makes photographic film and paper, and which processes exposed photographic film and makes prints.

Tasks include -

- (a) operating and monitoring equipment which makes photographic film and paper;
- (b) operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards
- (c) preparing exposed film for different processing batches in dark rooms and dark chambers;
- (d) inspecting images, films, prints and adjusting settings on print-making equipment to produce required colour, brightness, contrast, number, size and type of prints
- (e) adjusting settings and running automatic developing equipment
- (f) operating equipment to transfer film to video tape or other electronic media;
- (g) performing photographic processing related tasks;
- (h) operating automatic equipment (in retail establishments) to develop colour negatives, prints and slides;

Examples of occupations classified here:

- Darkroom technician
- Photographic processor
- Photographic film printer
- Developing machine operator - photography
- Enlarging machine operator- photography
- Photographic-film machine operator
- Printing/photography (colour) machine operator
- Film/colour developer
- Photograph enlarger
- Photograph printer

Some related occupations classified elsewhere:

- 3431 Photographers

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>813</b>	<b>Minor Group</b>	<b>Chemical and photographic products plant and machine operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8131</b>		<b>Chemical products plant and machine operators</b>
	81311	Machine-operator (compounding/crushing/grinding/mixing/pulverizing/ blending/ milling (chemical and related processes) / Machine-operator (colour making/grease making/ Operator, shredder/stirrer (chemical mixing)/ Ponds man/ brineinaker (salt production)/ Miller/ Mixer (fertilizer)
	81312	Machine-operator(coal gas production)/ Machine-operator(fertilizer production)/ Machine-operator(synthetic fiber production)



Unit Group	Sub-unit Group	Description
	81313	Tower man (soap making)/ Worker, kettle (soap making)/ Worker ((general), chemical processing plant (pharmaceutical))/ Compounder, perfume / Machine-operator (Pharmaceutical/toiletries/detergent/soap making/ match production)/ Operator, (pharmaceutical products)/ pharmaceutical/(distilling equipment (perfume)/ centrifuge (soap making)/ Technician, hot cell
	81314	Operator (bleacher (chemicals)/ treater (radioactive waste)/ chemical processing plant (electric cells/radioactive materials)/ fish fertilizer/ liquefaction plant (gases)/ Kiln-operator (charcoal production/ coke (retort kiln)/ Machine-operator( synthetic-fiber production/ coal gas production/ fertilizer production) / Operator (granulation equipment (Pharmaceutical products/toiletry products)/ moulding equipment (toiletries)/ still (perfume)
	81315	Machine-operator (ammunition products /explosives production/ fireworks production/Dipperman (matches)
	81316	Machine-operator ((lead (-oxide) production/ gas production (chlorine, halogen, hydrogen etc)/ paint/varnish production/ washing (chemical and related materials)/ linoleum production/ pencil/ candle (production))/ Operator, (centrifuge (glue)/ kettle (adhesives)/ radioactive waste treatment / Worker (general), cook house (glue))/Moulder, candle making/ Spinner, nylon
	81317	Operator( boiler: chemical and related processes/ compounder: petroleum and natural gas refining/ converter: chemical processes (except petroleum and natural gas)/ dehydrator: oilfield/ distiller: batch (chemical processes except petroleum and natural gas)/ distiller: continuous (chemical processes except petroleum and natural gas)/ distiller: petroleum and natural gas refining/ distiller: turpentine/ distilling equipment: perfume/ evaporator: chemical processes (except petroleum and natural gas)/ extractor: wood distillation/kettle: chemical and related processes/ reactor-converter: chemical processes (except petroleum and natural gas)/ spray-drier: chemical and related processes/ vacuum pan: chemical and related processes (except petroleum and natural gas)
<b>8132</b>		<b>Photographic Products Machine Operators</b>
	81321	Developer (film/photo/x-ray film/ photographic plate)/ Enlarger (photograph)
	81322	Darkroom worker (film/photograph printing)
	81323	Operator (paco-machine/ photo line)/ Repairer/joiner, film/ Registerer, photo/ Processor, film/ Printer, (projection/ film/photo)
	81324	Machine-operator, film/photography (developing/ enlarging/printing/paper production/ plate production/ photographic products)
	81325	Developer (negative: black-and-white/ negative: colour/ photograph: black-and-white/ positive: black-and-white/ positive: colour/ print)
	81326	Operator, machine (photographic film/ photographic film production/ photographic products/Processor, photographic)/Technician, darkroom/Worker, darkroom: photograph enlarging

## 814 Rubber, plastic and paper products machine operators

Rubber, plastic and paper products machine operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics or produce different paper products from paper, paperboard, cardboard



and similar materials.

Tasks performed usually include:

Operating and monitoring machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics; operating and monitoring machines which produce various paper products; examining outputs for defects and conformity to specifications and adjusting machine settings accordingly.

Occupations in this minor group are classified into the following unit groups:

- 8141 Rubber products machine operators
- 8142 Plastic products machine operators
- 8143 Paper products machine operators

### **8141 Rubber products machine operators**

Rubber-products machine operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber, such as moulded footwear, domestic articles, insulating materials, industrial accessories, or tyres.

Tasks include -

- (a) operating and monitoring machines which knead, mix and blend rubber and rubber compounds for further processing;
- (b) operating and monitoring machines which produce sheets of rubber or rubberised fabric by a rolling process;
- (c) operating and monitoring machines which extrude compounded rubber or shape vulcanised rubber by moulding;
- (d) operating and monitoring machines which build up tires on a form, vulcanise tires and mould or rebuild used tires;
- (e) examining outputs for defects and conformity to specifications;
- (f) locating defects and repairing worn and faulty tyres by vulcanising or other processes.

Examples of the occupations classified here:

- Latex worker
- Extruding/rubber machine operator
- Rubber milling machine operator
- Rubber moulder
- Rubber products machine operator
- Tyre maker
- Tyre repairer
- Vulcaniser

### **8142 Plastic products machine operators**

Products machine operators operate and monitor machines which knead and blend compounds to obtain plastic materials and which make various plastic components and articles.

Tasks include -

- (a) operating and monitoring machines which knead and blend compounds to obtain plastic materials;
- (b) operating and monitoring machines which shape plastic materials by moulding, extrusion, blowing, cutting and other means;
- (c) operating and monitoring machines which laminate plastics and plastic impregnated materials or produce fibreglass;
- (d) encasing uncoated wire, cord, cable and optic fibre in plastic;
- (e) examining outputs for defects and conformity to specifications;

- (f) recycling waste plastic materials;
- (g) making artificial eyes and contact lens discs, making and repairing spectacle frames and plastic parts of orthopaedic appliances.

Examples of the occupations classified here:

- Plastics boat builder
- Plastics bottle blowing machine operator
- Laminated press operator, plastics
- Plastic extrusion machine operator
- Plastics products machine operator
- Optic fibre drawer
- Plastic cabling machine operator
- Plastic moulder

### **8143 Paper products machine operators**

Paper products machine operators operate and monitor machines which produce boxes, envelopes, bags and other goods from paper, paperboard, cardboard and similar materials.

Tasks include -

- (a) operating and monitoring machines which glue paper to cardboard, cut it to the required length or cut and crease cardboard or paperboard to form box blanks;
- (b) operating and monitoring pressing machines which form drinking cups or other containers from paper, paperboard or cardboard;
- (c) operating and monitoring machines which cut, fold and glue paper to make envelopes and paper bags, or which form bags from other similar material

Examples of the occupations classified here:

- Machine operator (cardboard products)
- Machine operator (envelope and paper bag production)
- Machine operator (paper box production)
- Paper products machine operator
- Paper machine moulder

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>814</b>	<b>Minor Group</b>	<b>Rubber, plastic and paper products machine operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8141</b>		<b>Rubber-products machine operators</b>
	81411	Cureman ( foam rubber/ pan (rubber)/ Coagulator, latex/ Extruder, tread (rubber)/ Debagger (rubber production)/ Repairer, cover (rubber)/ tyre (machine)/ Cutter (rubber) / cameron (rubber)/ Bagger (assistant) (rubber product ion)/ Mixer, (ban bury/ mill (rubber)/ tar (rubber)/ Masticator (rubber)/ Mill man (rubber / manufacturing)/ Warmer, refiner (rubber)/Foreman ,rubber goods
	81412	Operator-machine (calendar (rubber)/ refiner (rubber)/ rubber processing plant/ rubber reclamation)/ Press-operator (rubber-embossing/rubber manufacturing)
	81413	Moulder , kynock (cycle cover ,summit press &other covers)/ Builder, bead (tyre-making)/ Press-operator, tyre-moulding

Unit Group	Sub-unit Group	Description
	81414	Machine-operator (coating / compounding / extruding / milling) / rubber (moulding/processing/ calenderer / dipping/ dough and solution/ embossing/ impregnating/ spooling)/ spreading/ tanning)/ Treater (latex)
	81415	Machine-operator , tyer (moulding/ rebuilding/production/vulcanising/ cycle tube production)/ patch making/ vulcanising (rubber goods except tires)/ rubber stamp production)/ Vulcanizer
<b>8142</b>		<b>Plastic-products machine operators</b>
	81421	Blender/miller/mixer (plastics/cellophane bath)/Foreman, plastic products
	81422	Finisher/polisher, (plastics)
	81423	Machine-operator, (buffing/carving/ casting / compression moulding/ cutting/ drilling/ etching/ extruding/fabrication/ finishing/ injection moulding/ laminating/ moulding/grinder/ seasoner) (plastics/ plastic products)
	81424	Mechanic, bench (plastics)
	81425	Press-operator, mould (plastic)
	81426	Welder, heat (plastic)
	81427	Builder, plastic boat/Drawer, fibre: optic/Machinist, /lastic products/Moulder,
	81428	Operator, machine( blowing (plastic bottle)/ cellophane bag production/ plastic cable making/ polythene bag production)/Operator, press: laminated (plastics)
<b>8143</b>		<b>Paper-products machine operators</b>
	81431	Machine-operator (Production/cutting/folding/bending(paper box)/Foreman,paper products Machine-operator (embossing (paper)/ paperboard products/ envelope and paper bag production/ paper box production/ paper products/ cardboard products/ lining (cardboard)
	81432	Machine-operator, (cellophane bag production/ polythene bag production)
	81433	Press-operator, cardboard / cutting and creasing (paper box)
	81434	Moulder, paper machine

## **815 Textile, fur and leather products machine operators**

Textile, fur and leather products machine operators operate and monitor various types of machines which prepare, process and treat fibres, yarn, thread, leather, fur; produce, modify and repair footwear, garments and manufacture or dry clean textiles or fur and light leather articles

Tasks include:

Operating and monitoring weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products; operating and monitoring machines which prepare fibres, and spin, double, twist and wind yarn and thread from natural textile fibres; operating and monitoring sewing machines to make, repair, darn and renovate textile, fur, synthetic or leather garments or embroider ornamental designs on garments or other materials; operating and monitoring machines which bleach, shrink, dye, and otherwise treat fibres, yarn, cloth or dry clean garments, fur, rugs, carpets; operating and monitoring various machines which prepare leather or treat fur- or wool-bearing pelts; operating and monitoring machines which produce, modify and repair standard, custom or orthopaedic footwear and leather articles, such as luggage, brief cases, handbags.

Occupations in this Minor Group are classified into the following unit groups:

- 8151 Fibre preparing, spinning and winding machine operators
- 8152 Weaving and knitting machine operators
- 8153 Sewing machine operators
- 8154 Bleaching, dyeing and fabric cleaning machine operators
- 8155 Fur and leather preparing machine operators
- 8156 Shoemaking and related machine operators
- 8157 Laundry machine operators
- 8159 Textile, fur and leather products machine operators not elsewhere classified

### **8151 Fibre preparing, spinning and winding machine operators**

Fibre-preparing, spinning and winding machine operators operate and monitor machines which prepare fibres, and spin, double, twist and wind yarn and thread from natural textile fibres. They twist two or more strands of yarn to prepare single stronger, smoother, uniform and heavier strands and treat textiles to make them stiff and water resistant.

Tasks include -

- (a) operating and monitoring machines for tearing woollen rags into fibre;
- (b) operating and monitoring machines for cleaning and turning woollen yarn waste into fluffed wool;
- (c) operating and monitoring machines which combine textile fibres into uniform blends;
- (d) operating and monitoring machines which clean and fluff textile fibres, transform them into sliver, comb them into sliver for first drawing, combine slivers into sliver lap or sliver laps into ribbon lap;
- (e) operating draw frame (machine) having number of drawing sets, each set combining several slivers into one of nearly same weight and thickness as any of original sliver;
- (f) operating and monitoring machines which spin thread and yarn from roving, wind two or more threads onto bobbin, twist two or more strands of yarn or thread into single strands of yarn to increase strength, smoothness and/or uniformity of yarn, or wind yarn or thread from one package to another;
- (g) operating and monitoring spinning frame that draws out and twists roving or sliver into yarn;
- (h) operating and monitoring machines for drawing slivers received from drawing machine into loosely twisted strands;
- (i) preparing sizing for use in stiffening and finishing cloth and yarn by mixing ingredients such as starch, tallow, resins, soaps and water and boiling mixture for specified time in steam;
- (j) treating textiles with chemicals to make them water resistant;
- (k) cleaning rollers and cylinders of carding machines to remove wool waste;
- (l) operating and resurfacing metal drawing rolls of various spinning, combing and lapping machines with new rubber or leather covers.

Examples of the occupations classified here:

- Fibre preparing machine operator
- Spinning/thread and yarn machine operator
- Twisting/thread and yarn machine operator
- Winding/thread and yarn machine operator

## **8152 Weaving and knitting machine operators**

Weaving and knitting machine operators set up, operate and monitor weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric

Tasks include -

- (a) setting up and operating batteries of automatic, link-type knitting machines to knit garments of specified pattern and design;
- (b) threading yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knitting, or other processing;
- (c) tending automatic looms that simultaneously weave pile yarn, filling yarn, and warp yarn material to produce carpets and rugs with various coloured designs;
- (d) operating and monitoring loom on which yarn or twist is intersected and knotted at regular intervals to form mesh;
- (e) operating and monitoring large automatic multi-needle machines to embroider material or to sew lengths of several layers of material to make yard goods, quilts or mattress coverings;
- (f) tending circular knitting machines with automatic pattern controls that knit seamless hose;
- (g) operating and monitoring knitting machines to knit hosiery to shape of foot and leg;
- (h) operating and monitoring machine for knitting heel and toes of socks into ribs or tops cut from circular fabric;
- (i) operating and monitoring machine which seams openings in toes of socks;
- (j) operating and monitoring crocheter machine to knit lace, trimming etc. of desired pattern or design;
- (k) examining looms to determine causes of loom stoppage, such as warp filling, harness breaks, or mechanical defects;
- (l) repairing or replacing worn or defective needles and other components;
- (m) cleaning, oiling, and lubricating machines, using air hoses, cleaning solutions, rags, oil cans, and/or grease guns.

Examples of the occupations classified here:

- Knitting machine operator
- Net production machine operator
- Weaving machine operator
- Weaving/carpets machine operator

Some related occupations classified elsewhere:

- Knitter - 7318
- Carpet weaver - 7318
- Cloth weaver – 7318

## **8153 Sewing machine operators**

Sewing machine operators operate and monitor sewing machines to make, repair, darn and renovate textile, fur, synthetic or leather garments or embroider ornamental designs on garments or other materials. They operate button hole making and eyelet holing machines to cut holes, stitch around holes, stitch buttons and fix eyelets to garments.

Tasks include -

- (a) operating or tending sewing machines to perform garment sewing operations, such as joining, reinforcing, seaming or decorating garments or garment parts;
- (b) attaching buttons, hooks, zippers, fasteners, or other accessories to fabric, using feeding hoppers or clamp holders;
- (c) tending semiautomatic sewing machines with multiple-sewing heads controlled by pattern

- chain that embroiders various designs on garments;
- (d) operating machines, such as single or double needle serging and flat-bed felling machines, to automatically join, reinforce, or decorate material or articles;
- (e) operating fur sewing machines to join fur pelt strips to required size and shape and join pelts into garment sections or shells;
- (f) operating stitching machines to sew leather parts together for leather garments, handbags, gloves;
- (g) monitoring machine operation to detect problems such as defective stitching, breaks in thread, or machine malfunctions;
- (h) performing equipment maintenance tasks such as replacing needles.

Examples of the occupations classified here:

- Sewing machine operator
- Embroidery machine operator

Some related occupations classified elsewhere:

- Embroiderer - 7533
- Furrier - 7531
- Handicraft /textiles worker - 7318
- Sewer - 7533
- Tailor – 7531

#### **8154 Bleaching, dyeing and fabric cleaning machine operators**

Bleaching, dyeing and fabric cleaning machine operators operate and monitor machines that bleach, shrink, dye, and otherwise treat fibres, yarn or cloth.

Tasks include -

- (a) starting and controlling machines and equipment to bleach, dye, or otherwise process and finish fabric, yarn, thread, and/or other textile goods;
- (b) tending machines that shrink woven or knitted cloth to predetermined size or strengthen the weave by interlocking the fibres;
- (c) tending a variety of automatic machines that comb and polish furs;
- (d) operating and monitoring machines that treat silk to give it body and weight;
- (e) operating and monitoring machines that impregnate textiles with chemicals to render them waterproof;
- (f) dyeing articles to change or restore their colours;
- (g) operating and monitoring machines that stretch, or impart lustre, or other type of finish to textiles;
- (h) tending and regulating equipment that fumigates and removes foreign matter from furs;
- (i) operating machines that comb, dry and polish furs, clean, sterilize and fluff feathers and blankets;
- (j) keying in processing instructions to program electronic equipment;
- (k) observing display screens, control panels, equipment, and cloth entering or exiting processes to determine if equipment is operating correctly;
- (l) cleaning machine filters and lubricating equipment;

Examples of the occupations classified here:

- Fabric bleaching machine operator
- Textile dyeing machine operator

Some related occupations classified elsewhere:

- Laundry machine operator - 8157
- Hand launderer - 9121
- Hand presser – 9121

## **8155 Fur and leather preparing machine operators**

Fur and leather preparing machine operators operate and monitor various machines that prepare leather or treat fur- or wool-bearing pelts. They trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs.

Tasks include -

- (a) operating and monitoring machines which remove flesh and fat from hides or pelts to clean and soften them prior to processing;
- (b) operating and monitoring machines which remove long coarse hair from fur pelts, trim hair to even length and dye, stretch and smooth dressed pelts;
- (c) operating and monitoring machines to remove epidermis hair roots, pigment cells and lime salts from grain side of skin;
- (d) operating and monitoring machines to reduce thickness of hide or skin to uniform size;
- (e) operating and monitoring machines to polish or roughen hides or skins to specified finish;
- (f) operating and monitoring machines which separate residual wool from skins, or flesh and hair from hides;
- (g) operating and monitoring machines in which hides are split edgewise to form two or more pieces or to give uniform thickness;
- (l) operating and monitoring machines which treat hides and skins in solutions to convert them into leather;
- (i) treating surface of leather with oil and operating glazing machine to give glossy finish to leather;
- (j) operating and monitoring machines which apply dyes and stains to leather
- (k) maintaining and repairing vats and other machinery

Examples of the occupations classified here:

- Dehairing/hide machine operator
- Staining/leather machine operator
- Tanning machine operator

Some related occupations classified elsewhere:

- Pelt dyer - 7535
- Tanner – 7535

## **8156 Shoemaking and related machine operators**

Shoemaking and related machine operators operate and monitor machines which produce and repair standard or special footwear, handbags and other accessories, mainly made of leather.

Tasks include:

- (a) operating and monitoring machines which mark patterns and cut shoe parts;
- (b) operating and monitoring machines which sew shoe parts together, or edge, polish, or apply ornaments and perform finishing tasks;
- (c) operating and monitoring machines which produce luggage, handbags, belts and other accessories, as well as other items such as saddles, collars or harnesses;

Examples of the occupations classified here:

- Machine operator (footwear production)

Some related occupations classified elsewhere:

- Cobbler - 7536
- Handicraft worker (leather) – 7318



## **8157 Laundry machine operators**

Laundry machine operators operate laundry, dry cleaning, pressing and fabric treatment machines in laundries and dry-cleaning establishments.

Tasks include -

- (a) sorting articles for cleaning according to the type colour, fabric and cleaning treatment required;
- (b) placing sorted articles into receptacles and onto conveyor belts for moving to repair and cleaning areas;
- (c) checking and removing stains from garments, and replacing buttons and making minor repairs;
- (d) loading and unloading washing machines, driers and extractors;
- (e) adding cleaning agents and starches to articles;
- (f) smoothing articles and guiding them through cleaning and pressing machines;
- (g) stopping and starting machines to untangle, straighten and remove articles;
- (h) placing articles on shelves and hanging articles for delivery and collection;
- (i) packaging articles and preparing orders for dispatch.

Examples of the occupations classified here:

- Dry-cleaning machine operator
- Laundry machine operator
- Pressing machine operator (laundry)

Some related occupations classified elsewhere:

- Hand launderer - 9121
- Hand presser - 9121

## **8159 Textile, fur and leather products machine operators not elsewhere classified**

This unit group covers textile, fur and leather products machine operators not classified elsewhere in Minor group 815, Textile, fur and leather products machine operators. For instance, the group includes those engaged in operating and monitoring machines which make hats, tents, mattresses or miscellaneous articles such as braids or other trimmings.

Tasks include -

- (a) operating and monitoring machines which form and make hats out of textiles, fur or leather;
- (b) operating and monitoring machines which make miscellaneous articles such as braids or other trimmings;
- (c) operating and monitoring machines that fold cloth into measured length;
- (d) operating and monitoring machines that wind thread, twine, or yarn into balls preparatory to shipping or further processing;
- (e) operating and monitoring machines to measure size of pieces of leather.

Examples of the occupations classified here:

- Braid making machine operator
- Hat making machine operator
- Textile pattern making machine operator
- Tent making machine operator



<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>815</b>	<b>Minor Group</b>	<b>Textile, fur and leather products machine operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8151</b>		<b>Fibre-preparing, spinning and winding machine operators</b>
	81511	Attendant, breaker (jute)/ Cleaner, card (textile)/ Condenser man, wool/ Coverer, flat
	81512	Ginner/ Giller/ Grinder, roller (textile)/ Gasser (yarn)/Finisher,attendant(jute)/ Finisher,card tenter(cotton)/Framer,sett(silk)
	81513	Machine-operator (blending / combing / preparing /(textile fibres)/ blowing (fibre treating)/( brushing/ picking (fibre))/ flate grinder/(mixing and cleaning / scouring and driving (wool))/ sizing (yarn)/ lapping (ribbon/sliver/fibres)/ , spinning/ roving-frame/ drawing-frame (synthetic fibre))/ spooling / twining/ twisting/ winding/ doubling/ skeining/ reeling / spinning (thread and yarn)
	81514	Softener attendant (jute)/ Shaker, dust/ Scutcher tenter/ Tenter (textiles)/ Mistry, wool
	81515	Spinner (ring wool/ jute/ silk)/ Winder (colour and art silk/ pirn/ cheese (textile)
	81516	Piecer (textile)/ Picker, waste (fiber)/ Reeler ( jute/wool/ silk)/ Baller ( thread and yarn)/ Double sided ( rings (cotton)/ wool/ jute/ Maser, tufting )
	81517	Conditioner, yarn/Mistry,wool
	81518	Operator, machine: roving-frame (textile fibers)/Operator, machine: washing (textile fibers)/ Foreman ,winding& twisting(textile/ Foreman .spinning(textile)
<b>8152</b>		<b>Weaving- and knitting-machine operators</b>
	81521	Stripper, bobbin/ / Tufter, carpet weaving/ Setter, knitting-machine, loom (lace machine)
	81522	Bander (textile)/Beamer (cotton/silk/jute)/ Beainer, assistant
	81523	Cutter/ lacer ( jacquard card/ Stocking ribber)/ Bobbin man
	81524	Threader (loom/ overlocker/ Warper (machine)/beam
	81526	Machine-operator( cloth production/ drawing-in (textile weaving)/ threading (loom)/ warping (beam (textile weaving)/ copy (pattern cards)/ fringing/ net production/(knitting link (garment/hosiery))/ embroidery/ crocheting/ button hole/ (weaving (fabrics)/ (jacquard)/ (laces)/ lacer (production/ jacquard card/ carpet production)
	81527	Foreman (warping/ knitting)/Fixer,loom
	81528	Operator, loom (carpet weaving)/ lace production)
	81529	Weaver, Power loom( jute/silk/ wool/ cotton)/ Fibre-preparing, spinning and winding machine operators,n.e.c.
<b>8153</b>		<b>Sewing machine operators</b>
	81531	Machine-operator ( sewing (upholstery /embroidery/hats/fur)/garments/ textile products))
	81532	Machine-operator, sewing (leather /leather garments and gloves)
	81533	Machinist, sewing

Unit Group	Sub-unit Group	Description
<b>8154</b>		<b>Bleaching, dyeing and fabric cleaning machine operators</b>
	81541	Machine-operator, ((yarn/textile fabrics/waterproofing (cloth/fabric)/ raiser (textiles)/silk weighting/ degumming (silk/bleaching (textiles)/ dyeing (fabric)/ garments))
	81542	Carboniser (wool), Setter (dye/ Rangsaaz), Stretcher/ Squeezer (textile), Lapper (folding machine man), Miller (textile)
	81543	Operator, (cleaning equipment (cloth/textiles/carpets)/fulling-mill (textiles))/ cloth measuring/calendar (textiles))
	81544	Calenderer, cloth
	81545	Operator, machine: shrinking (textiles)/Operator, machine: washing (cloth) Operator, machine: washing (yarn)/Operator, press: steam (textiles)/Operator, press: textile
<b>8155</b>		<b>Fur and leather preparing machine operators</b>
	81551	Machine-operator (mixing (fur/ fibre)/ (dehairing / washing (hide))/ fleshing (hide/pelt)/ processing (hide/pelt)
	81552	Machine-operator (staining/ tanning/ boarding butt striking/ buffing/ embossing/ glazing/ polishing/ roller/ sammying/ staking/ drum scouring and drum setting (leather))/Stuffer(leather)
	81553	Machine- operator (fur/pelt/ leather/ frame (thread and yarn spinning))/ Operator, machine: cutting (leather)/Operator, machine: leather preparing/Operator, machine: leather sewing
<b>8156</b>		<b>Shoemaking- and related machine operators</b>
	81561	Machine-operator, (sewing/ stitching)
	81562	Machine-operator, shoe (leveling /shoe- closing /pounding /perforating /lasting/ cutter / production (any type))
	81563	Machinist , leather
	81564	Operator, machine( footwear production/ footwear production (orthopaedic)/ footwear production (raffia)/ footwear production (sports)/ shoe production)
<b>8157</b>		<b>Laundry machine operators</b>
	81571	Machine-operator, (drying/ shrinking/ damping/ dry-cleaning (laundering/laundry)/ washing (laundry)/ (dry jug/ pressing)/ washing (cloth/varn)
	81572	Press-operator, steam (laundry), Pressman (textile), Scourer/ Mangler
	81573	Calenderer, laundry
	81574	Operator, cleaning equipment: laundry
<b>8159</b>		<b>Textile-, fur- and leather-products machine operator's n.e.c.</b>
	81591	Machine-operator, (textile/ mattress production/ leather /hat making/ braid production / shrinking (felt hoods) / pattern-making (fur/ leather/textiles), blocking (hats), forming (felt hoods))
	81592	Blocker, hat
	81593	Operator, machine: cutting (garments)/Operator, /achine: cutting (textiles) Operator, machine: tent making

## **816 Food and related products machine operators**

Food and related machine operators set, operate and attend machinery used to slaughter animals, trim meat from carcasses; bake, freeze, heat, crush, mix, blend and otherwise process foodstuffs, beverages and tobacco leaves.

Task performed usually include:

Operating and monitoring machinery used to restrain, stun, slaughter animals and trim carcasses into standard meat and fish cuts; setting, operating and attending machinery and ovens to mix, bake and otherwise prepare bread and flour confectionery products; operating machinery to crush, mix, malt, cook and ferment grains and fruits to produce beer, wines, malt liquors, vinegar, yeast and related products; attending equipment to make jam, toffee, cheese, processed cheese, margarine, syrup, ice, pasta, ice-cream, sausages, chocolate, maize starch, edible fats and dextrin; operating equipment to cool, heat, dry, roast, blanch, pasteurize, smoke, sterilize, freeze, evaporate and concentrate foodstuffs and liquids used in food processing; mixing, pulping, grinding, blending and separating foodstuffs and liquids with churning, pressing, sieving, grinding and filtering equipment; processing tobacco leaves by machine to make cigarettes, cigars, pipe and other tobacco products.

Occupations in this minor group are classified into the following unit groups:

8160 Food and related products machine operators

### **8160 Food and related products machine operators**

Food and related machine operators set, operate and attend machinery used to slaughter animals, trim meat from carcasses; bake, freeze, heat, crush, mix, blend and otherwise process foodstuffs, beverages and tobacco leaves.

Tasks include -

- (a) operating and monitoring machinery used to restrain, stun, slaughter animals and trim carcasses into standard meat and fish cuts;
- (b) setting, operating and attending machinery and ovens to mix, bake and otherwise prepare bread and flour confectionery products;
- (c) operating machinery to crush, mix, malt, cook and ferment grains and fruits to produce beer, wines, malt liquors, vinegar, yeast and related products;
- (d) attending equipment to make jam, toffee, cheese, processed cheese, margarine, syrup, ice, pasta, ice-cream, sausages, chocolate, maize starch, edible fats and dextrin;
- (e) operating equipment to cool, heat, dry, roast, blanch, pasteurize, smoke, sterilize, freeze, evaporate and concentrate foodstuffs and liquids used in food processing;
- (f) mixing, pulping, grinding, blending and separating foodstuffs and liquids with churning, pressing, sieving, grinding and filtering equipment;
- (g) processing tobacco leaves by machine to make cigarettes, cigars, pipe and other tobacco products.

Examples of the occupations classified here:

- Bakery products machine operator
- Bread production machine operator
- Chocolate production machine operator
- Cigar production machine operator
- Cigarette production machine operator
- Dairy products machine operator
- Fish processing machine operator
- Meat processing machine operator
- Milk processing machine operator

Some related occupations classified elsewhere:

- Bottling machine operator – 8183

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>816</b>	<b>Minor Group</b>	<b>Food and related products machine operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8160</b>		<b>Food and related products machine operators</b>
	81601	Machine-operator (sterilizing/canning/freezing /curing/processing products /preserving) (meat/fish) / Operator, autoclave (meat and fish) /centrifuge (fish oil)/ washing (carcasses)
	81602	Foreman/ Machine-operator (dairy products/milk powder production /milk processing / cooling / pasteurizing/cheese making/freezing) /Operator (churn/ separator/drier/ homogenizer/sterilizer/ emulsifier) (dairy products)/ Viscoliser/ spray plant (milk processing)/vacuum pan (condensed milk)
	81603	Foreman/ Machine-operator (milling/separating/cleaning/hulling/husking) (grain/corn/ rice/ spices/ mustard seeds)/Miller, garmmasalah/ Silk man, grain milling
	81604	Machine-operator(Bakery/confectionery products/cereal products/chocolate products / confectionery production/ cutting (sugar confectionary)/ enrobing (sugar,confectionary)/ noodle production/bread/bakery production/pastry production/ mogul (sugar confectionery)/moulding machine((bakery products)}/Operator, moulding machine (Bakery products/confectionery)/ Dividerman(bakery products)
	81605	Machine-operator/ Operator/{Freezing(fruit/vegetable)/ canning(fruit/vegetable)/ dehydrating (foodstuffs)/ drying (foodstuffs)/ edible (oil production)/ foodprocessing (fruit/vegetable /juice /roduction(fruit/vegetable)/ margarine /rocessing/ milling (oil-seed)/ refining (oils and fats)/washing (fruit/vegetable)/ blanching (edible nuts)/nut-grinding/sterilising (fruit/vegetable)/Mistry, hardening (edible oil)/Operator, autoclave (oils and fats)/Operator, churn (margarine)/ Operator, evaporation equipment (food essences)/Operator, hydrogenation equipment (oils and fats)/Operator, vacuum oven (foodstuffs)/Operator, vacuum pan (food essences)/Press-operator, edible (oils)/ Blender (oils and fats)
	81606	Machine-operator, refining (sugar)/ sugar production/ Boiler, sugar/Crusher man / sugar)/Fireman, kiln (sugar)/Foreman, filtration (sugar)/Foreman, melt house(sugar)/Foreman, mill platform(sugar)/Foreman, pulphouse (sugar)/Foreman, refining (sugar/ Operator{( battery (sugar)/ carbonation equipment (sugar refining)/ centrifugal (sugar)/ crystallizing equipment (sugar refining)/ granulator (sugar)/ grinding equipment (sugar-cane)/ melter (sugar)/ melthouse drag (sugar)/ screen (sugar refining)/ sugar processing equipment (continuous refining)}/ Press-operator, pulp (sugar beet)/ Tank man (sugar)

Unit Group	Sub-unit Group	Description
	81607	Machine-operator ,blending( coffee/ tea/ <b>tea leaf</b> ) / Machine-operator( coca/ coffee -bean processing)/ Winnower, cocoa-bean/ Operator, roasting equipment (coffee /cocoa-bean)
	81608	Machine-operator ( blending (spirits)/ blending (wine)/ brewing (spirits)/ distilling (spirits)/ liqueur production/ malting (spirits/ soft-drinks production/ vinegar making/ washing (bottles)/ Operator, clarifier (wine)/ cooking equipment (malt)/ cooling machine (malt liquor)/ distiller (brewery)/ fermentation /equipment (spirits)/ soda plant/ winemaking plant/ germination equipment (malting(spirits))/ malt house (malt liquor)/ Oven man (malt roaster)/Pasteurizer (malt liquor)/Pumper (brewery)/Soda room man (liquors)/Steeper, making/ <b>Carbonationman malt liquor/compounder,wine, foreman,brewing kettleman, malt liquor</b>
	81609	Machine-operator (stripping(tobacco leaf)/ (tobacco processing)/product/ blending (tobacco)/ cigar production/ cigarette production/ cutting (tobacco leaf)/ guardite (tobacco)/ stemming tobacco)/ blender(tobacco)cutting( tobacco)/ autoclave: fruit and vegetables/ conditioner /tobacco)/ cooking equipment: malt/ , diffuser: beet sugar/ hopper (cigarettes)/ leaf department (tobacco)/ distilling (spirits)/ pasta production/: preserving (fish)/preserving (fruit)/: preserving (vegetables)/ vegetable juice production/ vegetable processing/ edible oils/ fruit/, rolling-mill, spices/ still: spirits/ vacuum-conditioner (tobacco processing)/Salter, cheese/ Maltster/ Brewer, operating machinery/ Foreman, drying machine (tobacco)

## 817 Wood processing and papermaking plant operators

Wood processing and papermaking plant operators monitor, operate, and control automated lumber mill equipment sawing wood, cutting veneer and making plywood, and otherwise preparing wood for further use. Pulp mill machine operators operate and monitor various types of processing machinery and equipment to produce pulp.

Tasks include -

- examining logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or operating automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns;
- sorting, stacking and placing logs and wood billets onto conveyors and lathes from trucks for processing into chips, veneers and pulp;
- operating and monitoring screening equipment, bleaching equipment, digesters, mixing tanks, washers, and other pulp processing machinery and equipment to carry out one or more cellulose processing steps;
- observing equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications;
- operating and monitoring plywood core-laying machines and hot-plate plywood presses and machines which cut veneer;
- transporting processed wood products, such as plywood, chipboard sheets and panels to work areas.

Occupations in this minor group are classified into the following unit groups:

8171 Pulp and papermaking plant operators

8172 Wood processing plant operators

### **8171 Pulp and papermaking plant operators**

Pulp and papermaking plant operators operate and monitor multi-function process control machinery and processing equipment to control the processing of wood, scrap pulp and other cellulose materials in the production of pulp.

Tasks include -

- (a) co-ordinating and monitoring the operation of screening equipment, washing equipment, digesters, mixing tanks and other pulp processing equipment from automated panel boards in central control room to control the processing of wood, scrap pulp, recyclable paper and other cellulose materials;
- (b) operating and monitoring screening equipment, bleaching equipment, digesters, mixing tanks, washers and other pulp processing machinery and equipment to carry out one or more cellulose processing steps;
- (c) controlling start-up and shut-down of process machinery and equipment, and observing equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications;
- (d) analyzing instrument readings and production test samples and making adjustments to pulp production process and equipment as required;
- (e) completing and maintaining production reports.

Examples of the occupations classified here:

- Paper and pulp mill worker
- Pulp and paper assistant bleacher operator
- Pulp and paper digester operator
- Pulp and paper grinderman/woman
- Pulp and paper refiner operator
- Pulping control operator
- Pulping technician
- Repulper operator
- Thermo-mechanical pulp assistant operator

### **8172 Wood processing plant operators**

Wood processing plant operators monitor, operate, and control automated lumber mill equipment for sawing timber logs into rough lumber, cutting veneer, making plywood and particle board, and otherwise preparing wood for further use.

Tasks include -

- (a) examining logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or operating automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns;
- (b) operating and monitoring log in-feed and conveyor systems;
- (c) operating and monitoring automated lumber mill equipment from control rooms or

equipment consoles head saws, resaws and multiblade saws to saw logs, cants, flitches, slabs or wings and remove rough edges from sawn timber into dressed lumber of various sizes, and saw or split shingles and shakes;

- (d) operating and monitoring plywood core-laying machines and hot-plate plywood presses and machines which cut veneer;
- (e) cleaning and lubricating sawmill equipment.

Examples of the occupations classified here:

- Circular-saw operator
- Log cut-off operator
- Plywood press-operator
- Sawmill operator
- Sawmill planer operator
- Sawmill trimmer operator
- Wood-processing plant sawyer

Some related occupations classified elsewhere:

- Wood treaters – 7521

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>817</b>	<b>Minor Group</b>	<b>Wood processing and papermaking plant operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8171</b>		<b>Pulp and Paper making plant operators</b>
	81711	Breaker man, rag (paper making)/Finisher, paper
	81712	Mixer ( pulp slurry (wallboard)/ coating (paper))
	81713	Coater, paper (tar or asphalt), Tower man (pulp making)
	81714	Foreman, (pulp plant/ paper making)
	81715	Machine-operator, chipping/ grinding/ pulping (paper pulp)
	81716	Operator, beater/ bleacher/ boiler/ digester/ pulp refiner/ screener (paper pulp)/ Mixer, pulp slurry (wallboard)
	81717	Machine-operator, coating/ back end/ wet end/ impregnating/ laminating (paper
	81718	Operator{ combiner/ supercalender/ treating plant (paper production)/ calender: pulp and paper/ papermaking/ pulping (wood)/ papermaking plant/Operator, press: hardboard/ repulper/ sheet: pulp and paper)/ Machine-operator, (cardboard production/ hardboard)
<b>8172</b>		<b>Wood-processing-plant operators</b>
	81721	Kiln-operator (wood seasoning)/ Trimmer, board/ Gluer, veneer sheet
	81722	Machine-operator, wood (boring/ cutting/ drilling/ milling/ planning / sawing / seasoning/ shaping/ shaving / tempering / dryer /treating / processing)/ clipping (veneer)/ plywood core laying



Unit Group	Sub-unit Group	Description
	81723	Operator, (wood-processing plant/ glue kitchen)
	81724	Press-operator, (veneer/ plywood/ hot-plate (plywood))
	81725	Assembler, plywood panel
	81726	Operator(barker/ chipper: wood/ lathe: cutting (veneer)/lathe: cutting (wood)/ lathe: veneer/ machine: cutting (veneer)/planer: sawmill/ press: plywood/ press: veneer/ press: waferboard/ saw: circular/ sawmill/ trimmer: sawmill)
	81727	Press-operator, plywood/Sawyer, edge/Sawyer, sawmill/Sawyer, wood processing plant

## **818 Other stationary plant and machine operators**

This unit group includes stationary plant and machine operators not classified elsewhere in sub-major group 81, Stationary plant and machine operators. The group includes, for instance, operators of machines which make silicon chips and splice cables and ropes.

Tasks performed usually include:

Monitoring kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks; operating machines to anneal, harden or decorate glass and ceramics; maintaining and operating stationary steam engines, boilers, turbines and auxiliary equipment; operating and monitoring machines which weigh, pack and label products, or fill containers with products;

Occupations in this minor group are classified into the following unit groups:

- 8181 Glass and ceramics plant operators
- 8182 Steam engine and boiler operators
- 8183 Packing, bottling and labelling machine operators
- 8189 Stationary plant and machine operators not elsewhere classified

### **8181 Glass and ceramics plant operators**

Glass and ceramics plant operators operate and monitor kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks. They operate machines to anneal, harden or decorate glass and ceramics.

Tasks include -

- (a) operating and monitoring glass-making furnaces to make glass by melting and fusing pre-mixed ingredients
- (b) tending hot- or cold-end spray equipment used to coat glassware with surface hardener
- (c) operating and maintaining machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses
- (d) operating hand press to mould glass into required shape
- (e) operating drawing kiln to process molten glass into continuous sheet of flat glass
- (f) operating and monitoring floating-glass production plant
- (g) operating and maintaining finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products
- (h) setting and operating press machines to mould ceramic articles from moist clay.
- (i) operating machines to mix clay with water to knead it into a suitable plastic condition or semi-liquid form for making ceramic products



- (j) operating and monitoring kilns which bake pottery, porcelain ware and bake bricks and tiles;
- (k) operating and monitoring machines for making glaze or abrasives;
- (l) operating and monitoring machines which extrude molten glass to form fibreglass filaments;
- (m) observing finished products to identify splits, cracks, breaks, colour and other imperfections.

Examples of the occupations classified here:

- Furnace-operator, glass production
- Kiln-operator, brick and tile
- Kiln-operator, pottery and porcelain
- machine operator, blowing/glass
- machine operator, mixing/clay
- machine operator, mixing/glass

Some related occupations classified elsewhere:

- Blower, glass - 7315
- Cutter, glass -7315
- Moulder, brick and tile – 7314

## **8182 Steam engine and boiler operators**

Steam engine and boiler operators maintain and operate various types of steam engines, boilers, turbines and auxiliary equipment to provide power and other utility services for commercial, industrial and institutional buildings, at work sites and aboard ships or self-propelled vessels.

Tasks include -

- (a) operating, cleaning, lubricating and monitoring steam engines, boilers and auxiliary equipment such as pumps, compressors and air-conditioning equipment to supply and maintain steam and power for buildings, marine vessels or pneumatic tools;
- (b) analyzing and recording instrument readings, troubleshooting and performing minor repairs to prevent equipment or system failure;
- (c) monitoring and inspecting performance of equipment for efficient operation and ensuring boiler water, chemical, and fuel levels are maintained at required levels;
- (d) firing coal furnaces by hand or with stokers and gas- or oil-fed boilers, using automatic gas feeds or oil pumps;
- (e) testing boiler water quality or arrange for testing, adjusting and taking necessary corrective action, such as adding chemicals to prevent corrosion and harmful deposits;
- (f) monitoring ship's engine, machinery and equipment indicators, recording variables and reporting abnormalities to ship engineer officer on watch;
- (g) operating and maintaining off-loading liquid pumps and valves.

Examples of the occupations classified here:

- Boiler tender
- Ship's boiler operator
- Stationary engineer
- Steam engine operator
- Stoker
- Thermal plant operator

Some related occupations classified elsewhere:

- Ship's engineer - 3151
- Stationary engine fitter - 7233

### **8183 Packing, bottling and labelling machine operators**

Packing, bottling and labelling machine operators operate and monitor machines which weigh, pack and label various products, or fill different containers with products.

Tasks include -

- (a) operating and monitoring machines that weigh, wrap, seal and pack various products;
- (b) operating and monitoring machines that fill and seal tubes, bottles, cans, boxes, bags and other containers with products, such as food, beverages, paints, oils and lotions;
- (c) operating and monitoring machines that, by gluing or other methods, label products, packages and various containers.

Examples of the occupations classified here:

- Bottle filler
- Labelling machine operator
- Packing machine operator
- Wrapping machine operator

Some related occupations classified elsewhere:

- Hand packer - 9321

### **8189 Stationary plant and machine operators not elsewhere classified**

This unit group includes stationary plant and machine operators not classified elsewhere in sub-major group 81, Stationary plant and machine operators. The group includes, for instance, operators of machines which make silicon chips and splice cables and ropes.

Examples of the occupations classified here:

- Silicon chip production machine operator
- Cable and rope splicing machine operator

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>81</b>	<b>Sub-major Group</b>	<b>Stationary plant and machine operators</b>
<b>818</b>	<b>Minor Group</b>	<b>Other stationary plant and machine operators</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8181</b>		<b>Glass and ceramics plant operators</b>
	81811	Attendant, lehr/ Checker, lehr (glass manufacturing)/dipping machine (ceramics decorating)
	81812	Foreman (bottle machine/ forming department/ glass melting/ mold makers/ mold shop/ sheet glass/ sheet glass cutting/ burner (brick and tile))/Fireman, pottery oven/ Setter-in, kiln (ceramics)/ Ovenman, pottery and porcelain/ Furnace-operator, annealing (glass)/ glass production/ lehr Furnace-operator, smelting (glass)/ tempering (glass)

Unit Group	Sub-unit Group	Description
	81813	Kiln-operator, float-glass bath/ Bedder, pottery and porcelain/ Emptier, kiln/ware (ceramics)/ Maker, crucible (saggars)/ Lathe-operator, glass/ Operator, kiln( biscuit (pottery and porcelain)/biscuit (tile)/ glost (pottery and porcelain)/ glost (tile)/ oven (pottery and porcelain)/ porcelain/ pottery/ retort (brick and tile)/ tile/ Operator, machine( glass bottle production/grinding (clay)/ mixing (glass)/ mixing (glaze)/Operator, pug-mill: clay
	81814	Machine-operator(etch-ing) (glass)/ finishing/polishing (glass)/ glass -drawing (horizontal)/ glass production/products/ polishing (glass lens)/ pottery and porcelain production /, pressing (glass)/ rolling (plate-glass) mold -press (glass)/ bending(glass)/ blowing(glass)/ / ceramics production/ cutting (glass)/ drawing (glass)/ engraving /plating
	81815	Operator, (ladle (glass)/ pantograph, (glass decorating)/ sandblasting equipment (glass)/ die-press, (pottery and porcelain)
	81816	Machine-operator , ( grinding (lens)/ mold press/ moulding/ grinding(glass) / ceramics production/ casting (pottery and porcelain)/ drilling (pottery)/ painting(ceramics/ glass)/ pottery and porcelain production) bottle production/ glass production (rod/tube)
	81817	Foreman, (mixing glass/ press operation (mechanical/ brick and tile)/ clay mixing (mechanical)/Fireman, oven (brick and tile)/ (Miller/ Wedger) clay/ Machinist
	81818	Machine-operator,( glass-fibre/ glaze) production/ mixing (abrasives/ glass)/ clay slips production/ (grinding /mixing)clay/ Operator, (crog mill / pug-mill) clay/ Press
<b>8182</b>		<b>Steam-engine and boiler operators</b>
	81821	Operator, (steam engine/ boiler (ship)/ boiler plant (steam))
	81822	Fireperson (steam engine (railway)/ boiler plant/ ship (oil))/ Stoker( ship)/ Inspector , loco (fuel)
	81823	Engineer, stationary
	81824	Tender, boiler
<b>8183</b>		<b>Packing, bottling and labelling machine operators</b>
	81831	Foreman packing/ Machine-operator (wrapping/ labeling)
	81832	Machine-operator (capping/sealing/ packing/ bottling/ bagging), filling (containers)/ pelletising)
	81833	Filler, bottle
	81834	Operator, machine: branding
	81835	Operator, machine: marking (goods)
<b>8189</b>		<b>Stationary plant and machine operators not elsewhere classified</b>
	81891	Machine-operator (silicon chip production/insulation/ cable/line installation/ pipe/drain installation/ pelletising)
	81892	Operator (pelletiser (iron ore)/ marking equipment (roads/goods)/ merry-go-round)
	81893	Press-operator baling
	81894	Filler, gas
	81895	Operator, machine: pencil production
	81896	Operator, machine: splicing (cable and rope)

## 82 Assemblers

Assemblers assemble prefabricated parts or components to form subassemblies, products and equipment, according to strictly laid down procedures. The products worked on may be moved from one worker to the next along assembly lines.

Tasks performed by workers in this sub-major group usually include:

Assembling components into various types of products and equipment, according to strictly laid down procedures.

Occupations in this sub-major group are classified into the following minor group:

821 Assemblers

### 821 Assemblers

Assemblers assemble prefabricated parts or components to form subassemblies, products and equipment, according to strictly laid down procedures. The products worked on may be moved from one worker to the next along assembly lines.

Tasks performed usually include:

Assembling components into various types of products and equipment, according to strictly laid down procedures; reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions; recording production and operational data on specified forms; inspecting and testing completed components and assemblies, wiring installations and circuits; rejecting faulty assemblies and components.

Occupations in this minor group are classified into the following unit groups:

8211 Mechanical machinery assemblers

8212 Electrical and electronic equipment assemblers

8219 Assemblers not elsewhere classified

#### 8211 Mechanical machinery assemblers

Mechanical machinery assemblers assemble, according to strictly laid down procedures, component parts of mechanical machinery such as engines, motor vehicles, turbines and aircraft.

Tasks include -

- (a) assembling and installing prefabricated parts or components to form subassemblies, mechanical machinery, engines and finished motor vehicles;
- (b) reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions;
- (c) recording production and operational data on specified forms;
- (d) inspecting and testing completed components and assemblies;
- (e) rejecting faulty assemblies and components;

Examples of the occupations classified here:

- Gearbox assembler
- Engine assembler
- Bench fitter (trucks)
- Vehicle assembler
- Engine installer
- Aircraft assembler
- Turbine assembler

Some related occupations classified elsewhere:

- Bicycle assembler - 8219
- Electro-mechanical equipment assembler – 8212

## **8212 Electrical and electronic equipment assemblers**

Electrical and electronic equipment assemblers assemble or modify, according to strictly laid down procedures, components of electrical, electro-mechanical and electronic equipment.

Tasks include -

- (a) assembling component parts and electrical and electronic systems and positioning, aligning and fastening units to assemblies, sub-assemblies, or frames using hand or power tools, soldering and micro-welding equipment.;
- (b) reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions;
- (c) recording production and operational data on specified forms;
- (d) operating wire-coiling machines to wind wire coils used in electrical equipment and components such as registers, transformers, armature wires, electric motors and generators;
- (e) inspecting and testing completed components and assemblies, wiring installations and circuits and rejecting faulty assembly components;

Examples of the occupations classified here:

- Armature assembler
- Assembler, electronic equipment
- Electrical equipment assembler
- Electromechanical equipment assembler
- Electronic equipment assembler
- Etcher (printed circuit board)
- Telephone assembler
- Television assembler

Some related occupations classified elsewhere:

- Precision instrument-makers – 7311
- Electronics mechanics and servicers – 7421

## **8219 Assemblers not elsewhere classified**

Assemblers not elsewhere classified assemble, according to strictly laid down procedures various products that do not include electronic, electrical, or mechanical components.

Tasks include -

- (a) assembling component parts and positioning, aligning and fastening units to assemblies, sub-assemblies, or frames using hand or power tools, soldering and micro-welding equipment;
- (b) reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instructions;
- (c) recording production and operational data on specified forms;
- (d) inspecting and testing components and completed assemblies;
- (e) rejecting faulty products.

Examples of the occupations classified here:

- Ammunition assembler
- Assembler, metal products (except mechanical)
- Assembler, plastic products
- Assembler, rubber products

- Assembler, wood products
- Box builder
- Bicycle assembler
- Door assembler
- Eyeglass frame assembler
- Furniture finisher, wood
- Jewellery assembler
- Knife assembler
- Leather products assembler
- Luggage finisher
- Paperboard products assembler
- Pen and pencil assembler
- Plastic toy assembler
- Sun-blinds assembler
- Textile products assembler
- Thermos bottle assembler
- Umbrella maker

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>82</b>	<b>Sub-major Group</b>	<b>Assemblers</b>
<b>821</b>	<b>Minor Group</b>	<b>Assemblers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8211</b>		<b>Mechanical-machinery assemblers</b>
	82111	Assembler, engine (internal combustion, except aircraft and marine engines)
	82112	Assembler, (aircraft /airframe/marine)
	82113	Assembler, machinery (earth-moving/ industrial/mechanical)
	82114	Machine-operator ( assembly-line (aircraft/ vehicle))
	82115	Machine-operator assembly-line (except vehicles and aircraft)
	82116	Assembler, engine(steam)/ vehicle/ machine-tool)/ Assembler(gearbox/ steam engine/ turbine)/Fitter, bench: trucks/Installer, engine/Operator, machine: vehicle assembly
	82117	Assembler, machinery (mining/ printing/ textile / (agricultural machinery/ turbine)
	82118	Assembler, woodworking machinery
<b>8212</b>		<b>Electrical and electronic equipment assemblers</b>
	82121	Assembler (battery/ electrical components/equipment)
	82122	Assembler ( hearing aid/ radio/television/ office machinery/ electronic components/ computer/electronic instruments/ microelectronics equipment)
	82123	Repairman, battery
	82124	Machine-operator, winding (armature/ filament/ coil)
	82125	Assembler (chronometer/clock/watch/ audio-visual equipment)
	82126	Assembler, armature/ electromechanical equipment hearing aid microelectronics equipment/ precision instrument/ telephone
	82127	Etcher, printed circuit board
	<b>82128</b>	<b>Winder,filament: operating machine,transformer coil: operating machine</b>

Unit Group	Sub-unit Group	Description
<b>8219</b>		<b>Assembler not elsewhere classified</b>
	82191	Assembler, furniture (sheet-metal/ wood and related materials)
	82192	Assembler, products (plastic/ metal/ composite/ tools/ wood /rubber/ textile products/ leather products/ paperboard)
	82193	Joiner, ply (rubber)
	82194	Assembler/gluer, plastic products
	82195	Assembler( ammunition/ bicycle/ cardboard products/ door/ eyeglass frame/Jewellery/ knife/ leather products/ paperboard products/ pen and pencil/plastic toy/ sun-blinds thermos bottle
	82196	Builder, box
	82197	Finisher, luggage

### **83 Drivers and mobile plant operators**

Drivers and mobile plant operators drive and tend trains and motor vehicles, or drive, operate and monitor industrial and agricultural machinery and equipment, or execute deck duties on board ship and other water-borne craft.

Tasks performed by workers in this sub-major group usually include:

Driving and tending trains and motor vehicles; driving, operating and monitoring mobile industrial and agricultural machinery and equipment; carrying out deck duties on board ship and other water-borne craft.

Occupations in this sub-major group are classified into the following minor groups:

- 831 Locomotive engine drivers and related workers
- 832 Car, van and motorcycle drivers
- 833 Heavy truck and bus drivers
- 834 Mobile plant operators
- 835 Ships' deck crews and related workers

#### **831 Locomotive engine drivers and related workers**

Locomotive engine drivers and related workers drive, or assist in driving, locomotive engines to transport passengers and freight, take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Tasks performed usually include:

Driving or assisting in driving railway engines, operating railway signals, switching rolling stock and making up trains in railway yards, making up trains in mines and controlling their movement.

Occupations in this minor group are classified into the following unit groups:

- 8311 Locomotive engine drivers
- 8312 Railway brake, signal and switch operators

## **8311 Locomotive engine drivers**

Locomotive-engine drivers drive, or assist in driving, locomotive engines to transport passengers and freight.

Tasks include -

- (a) driving or assisting in driving a steam, electric or diesel-electric locomotive engine;
- (b) driving an underground or elevated passenger train;
- (c) driving a locomotive to haul carriages underground or on the surface of a mine or quarry;
- (d) watching for track hazards, observing signals and indicator gauges;
- (e) operating communications systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains.

Examples of the occupations classified here:

- Locomotive driver
- Train driver

Some related occupations classified elsewhere:

- Tram driver – 8331

### **Note**

Drivers of vehicles that operate on fixed rail systems that are separated from public roadways are classified in Unit Group 8311 Locomotive engine drivers. Drivers of vehicles for passenger transportation on fixed rails that are incorporated in the public roadway are classified in Unit Group 8331, Bus and tram drivers.

## **8312 Railway brake, signal and switch operators**

Railway brakemen, signallers and shunters take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Tasks include -

- (a) taking charge of and safeguarding freight train during run;
- (b) controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box;
- (c) switching and coupling rolling stock in railway yards and sidings in accordance with orders about loading, unloading and make-up of trains;
- (d) making up trains for hauling by locomotive or cable and directing their movement along haulage ways in a mine or quarry;
- (e) checking train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run.

Examples of the occupations classified here:

- Braker, railway
- Shunter, railway
- Signaller, railway



<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>83</b>	<b>Sub-major Group</b>	<b>Drivers and mobile plant operators</b>
<b>831</b>	<b>Minor Group</b>	<b>Locomotive engine drivers and related workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8311</b>		<b>Locomotive engine drivers</b>
	83111	Driver/Driver-assistant, (locomotive/train)
	83112	Driver, shunting-engine
	83113	Driver, train (elevated/underground)
	83114	Fireman, locomotive
	83115	Motorman, underground or elevated train
	83116	Driver, engine (mine/quarry)
	83117	Driver, locomotive (mine/quarry)
	83118	Driver( metropolitan railway/ monorail/ subway)
<b>8312</b>		<b>Railway brake, signal and switch operators</b>
	83121	Brakeman/Breaker, (railway yard/ train)
	83122	Cabin man/ Flagman/ Pointsman/ Ballast man (railway)
	83123	Coupler/ Trainman/ Switch tender (railway yard)/ Guard ( goods train)
	83124	Shunter, Train
	83125	Signaller, Train
	83126	Master, Shunting

## **832 Car, van and motorcycle drivers**

Car, van and motorcycle drivers drive and tend motor cycles, motorized tricycles, cars or vans to transport passengers, materials or goods.

Tasks performed usually include:

Driving and tending motor cycles, motorised tricycles, cars or vans in order to transport materials, goods or passengers.

Occupations in this minor group are classified into the following unit groups:

8321 Motorcycle drivers

8322 Car, taxi and van drivers

### **8321 Motorcycle drivers**

Motor-cycle drivers drive and tend motor cycles or motorised tricycles equipped to transport materials, goods or passengers.

Tasks include –

- (a) driving and tending motor cycle or motorised tricycle to transport materials, goods and passengers;
- (b) observing traffic rules and signals;
- (c) cleaning and washing vehicle as well as performing maintenance and minor repairs;
- (d) keeping a record of journeys;

- (e) delivering messages.

Examples of the occupations classified here:

- Dispatch rider
- Driver (motorized rickshaw)
- Driver (motorized tricycle)
- Motorcyclist

Some related occupations classified elsewhere:

- Driver (pedal vehicle) – 9331

## **8322 Car, taxi and van drivers**

Car, taxi and van drivers drive and tend motor cars and vans to transport passengers, mail or goods.

Tasks include -

- (a) driving and tending passenger, vans, cars or taxis;
- (b) driving and tending cars, vans or small trucks to deliver mail or goods;
- (c) assisting passengers with handling of luggage;
- (d) collecting fares, payments for deliveries, or documents certifying deliveries;
- (e) operating telecommunications equipment to report location and availability and follow directions of control centre;
- (f) determining most appropriate route;
- (g) assisting physically challenged passengers;
- (h) operating equipment to facilitate the loading and unloading of physically challenged passengers.

Examples of the occupations classified here:

- Driver, car
- Driver, taxi
- Driver, van

Some related occupations classified elsewhere:

- Driver, bus - 8331
- Driver, heavy track - 8332
- Driver, auto-rickshaw – 8321

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>83</b>	<b>Sub-major Group</b>	<b>Drivers and mobile plant operators</b>
<b>832</b>	<b>Minor Group</b>	<b>Car, van and motorcycle drivers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8321</b>		<b>Motor-cycle drivers</b>
	83211	Driver (motor cycle)
	83212	Driver (motor tricycle)
	83213	Dispatch rider/ Driver Dispatch
	83214	Courier, motorcycle
	83215	Deliverer, motorcycle
	83216	Messenger, motorcycle
	83217	Motorcyclist
<b>8322</b>		<b>Car, taxi and van drivers</b>
	83221	Driver (car/ motor vehicle/ <b>valet parking</b> )
	83222	Driver (ambulance)
	83223	Driver ( taxi (motor tricycle)/cab)
	83224	Driver (van/ mail van)/Driver(car-delivery)
	83225	Chauffeur, motor-car/Courier, driving car/Courier, driving van
	83226	Deliverer, driving car/Deliverer, driving van
	83227	Messenger, driving car/Messenger, driving van

### **833 Heavy truck and bus drivers**

Heavy truck and bus drivers drive and tend heavy trucks, lorries, buses or street tramcars to transport goods, liquids, heavy materials, mail or passengers.

Tasks performed usually include:

Driving and tending heavy trucks, lorries, buses or street tramcars in order to transport goods, liquids, heavy materials, mail or passengers.

Occupations in this minor group are classified into the following unit groups:

- 8331 Bus and tram drivers
- 8332 Heavy truck and lorry drivers

#### **8331 Bus and tram drivers**

Bus and tram drivers drive and tend buses or street tramcars to transport passengers, mail or goods.

- (a) driving and tending motor bus, trolley bus or motor coach to transport local or long-distance passengers, mail or goods;
- (b) driving and tending street tramcar transporting passengers;
- (c) opening and closing doors before or after passengers board or alight;
- (d) assisting passengers with luggage;
- (e) controlling lighting, heating and ventilation on buses and trams;
- (f) observing traffic to ensure safe progress;
- (g) collecting fares or verifying passenger has necessary ticket.

Examples of the occupations classified here:

- Driver, bus
- Driver, tram
- Driver, motor coach

### **8332 Heavy truck and lorry drivers**

Heavy-truck and lorry drivers drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.

Tasks include -

- (a) driving and tending a heavy motor vehicle, such as a lorry with or without trailer or a dump-truck, to transport goods, liquids or heavy materials over short or long distances;
- (b) determining the most appropriate routes;
- (c) ensuring goods are stowed and securely covered, to prevent loss and damage;
- (d) assisting with or carrying out loading or unloading operations, using various lifting or tipping devices;
- (e) carrying out minor maintenance to vehicles, and arranges major maintenance and repairs;
- (f) estimating weights to comply with load limitations, and ensuring the safe distribution of weights.

Examples of the occupations classified here:

- Heavy truck driver
- Concrete mixer driver
- Road train driver

Some related occupations classified elsewhere:

- Van driver – 8322

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>83</b>	<b>Sub-major Group</b>	<b>Drivers and mobile plant operators</b>
<b>833</b>	<b>Minor Group</b>	<b>Car, van and motorcycle drivers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8331</b>		<b>Bus and tram drivers</b>
	83311	Driver (bus)
	83312	Driver (streetcar)
	83313	Driver (tram)
	83314	Driver (trolley-bus/ tramcar)/Motorman, tramcar
	83315	Driver, coach
<b>8332</b>		<b>Heavy truck and lorry drivers</b>
	83321	Driver (truck)
	83322	Driver (lorry)
	83323	Driver (tanker)
	83324	Driver (dumper)
	83325	Operator, shuttle-car (mine/quarry)
	83326	Driver( concrete mixer/ garbage truck/ heavy goods vehicle/ road train/ semi-trailer/ trailer-truck/ train: road/ truck: heavy)
	83327	Fueller, aircraft

## **834 Mobile plant operators**

Mobile plant operators drive, tend, operate and monitor special-purpose motorised, machinery or equipment used for clearing or preparing land; digging, moving, and spreading earth, rock and similar materials; and lifting or moving heavy objects.

Tasks performed usually include:

Preparing and positioning plant for operation; adjusting speed, height and depth of implements; driving and operating mobile plant; operating attachments to lift, swing and release trees, logs, earth and other heavy objects or materials; operating and monitoring lifting trucks and stationary or mobile cranes in construction, transportation and storage operations; servicing machinery and performing minor repairs.

Occupations in this minor group are classified into the following unit groups:

- 8341 Mobile farm and forestry plant operators
- 8342 Earthmoving and related plant operators
- 8343 Crane, hoist and related plant operators
- 8344 Lifting truck operators

### **8341 Mobile farm and forestry plant operators**

Mobile farm and forestry plant operators drive, tend, operate and monitor one or more types of special-purpose motorised, mobile machinery or equipment used in agricultural, horticultural and forestry operations.

Tasks include -

- (a) driving and tending tractor-drawn or self-propelled special-purpose farm machinery to plough land and sow, fertilize, cultivate and harvest crops;
- (b) driving and tending tractor-drawn or self-propelled special-purpose forestry machinery to clear land, plant, harvest and carry trees and timber or perform other forestry operations;
- (c) preparing and positioning plant for operation;
- (d) adjusting speed, height and depth of implements;
- (e) operating plant to hold, lift and cut trees;
- (f) operating attachments to lift, swing, release and sort trees and logs, and operating auxiliary plant such as chipping machines and log splitting machines;
- (g) feeding felled trees into processors to strip limbs and cut into logs and loading logs onto stockpiles and into trucks;
- (h) servicing machinery and performing minor repairs.

Examples of the occupations classified here:

- Harvester operator
- Logging plant operator
- Timber carrier driver
- Tractor driver
- Tree faller operator

Some related occupations classified elsewhere:

- Bulldozer operator – 8342

## **8342 Earthmoving and related plant operators**

Earthmoving and related plant operators operate machines to excavate, grade, level, smooth and compact earth or similar materials.

Tasks include -

- (a) operating and monitoring excavating machinery equipped with moveable shovel, grab-bucket or dragline bucket, to excavate and move earth, rock, sand, gravel or similar materials;
- (b) operating and monitoring machinery for digging trenches for sewers, drainage, water, oil, gas or similar pipelines;
- (c) operating and monitoring machinery equipped with concave steel blade to move, distribute and level earth, sand, snow and other materials;
- (d) operating and monitoring equipment to remove sand, gravel and mud from bottom of body of water;
- (e) operating and monitoring machines for hammering wooden, concrete or steel piles into ground;
- (f) operating and monitoring power roller to compact and smooth layers of materials in making roads, pavements and similar work;
- (g) operating and monitoring machines which spread and smooth concrete or bituminous or tar preparationsto construct roadways, roads or similar surfaces.

Examples of the occupations classified here:

- Operator, bulldozer
- Operator, excavator
- Operator, pile-driver
- Operator, road-roller
- Operator, front-end loader
- Operator, snow groomer

## **8343 Crane, hoist and related plant operators**

Crane, hoist and related plant operators operate and monitor stationary and mobile cranes and other hoisting equipment.

Tasks include -

- (a) operating and monitoring stationary or mobile cranes by raising and lowering jibs and booms, to lift, move, position or place equipment and materials;
- (b) operating and monitoring equipment for hoisting, lowering or raising workers and materials on construction sites or in mines;
- (c) operating and monitoring ski-lifts and similar equipment;
- (d) operating and monitoring machinery used to haul ferry or barge with goods, passengers and vehicles across short stretches of water;
- (e) operating and monitoring machinery to open and close bridge for the passage of road and water traffic;
- (f) operating and monitoring cranes equipped with dredging attachments to dredge waterways and other areas;
- (g) operating cranes mounted on boats or barges to lift, move and place equipment and materials.

Examples of the occupations classified here:

- Operator, crane
- Operator, hoist
- Operator, mobile crane
- Operator, tower crane

## 8344 Lifting truck operators

Lifting-truck operators drive, operate and monitor lifting-truck or similar vehicle to transport, lift and stack pallets with goods.

Tasks include -

- (a) operating and monitoring lifting-truck and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, ware-houses, factories and other establishments;
- (b) positioning lifting devices under, over, or around loaded pallets, skids and boxes, and securing material or products for transport to designated areas;
- (c) inspecting equipment to identify wear and damage;
- (d) performing routine maintenance on vehicles and equipment;
- (e) keeping records of work undertaken and breakdowns of vehicles.

Examples of the occupations classified here:

- Forklift truck driver

**8 Major Group Plant and machine operators, and assemblers**

**83 Sub-major Group Drivers and mobile plant operators**

**834 Minor Group Mobile plant operators**

Unit Group	Sub-unit Group	Description
<b>8341</b>		<b>Mobile farm and forestry plant operators</b>
	83411	Driver (tractor/ lumber carrier/ timber carrier)
	83412	Operator (agricultural machinery/ baler (farm)/ combiner (agricultural)/ harvester/ motorised farm equipment/ thresher)
	83413	Operator ( forestry machinery/motorized equipment)
	83414	Operator, logging plant
	83415	Operator, tree faller
<b>8342</b>		<b>Earthmoving and related plant operators</b>
	83421	Driver/Operator (dragline-bucket/ dragline/ dredge/ pile-driver/ concrete finishing machine (road paving)/ paving/ road surface laying machinery/ Pneumatic drill)
	83422	Operator paving machinery (bituminous/concrete)
	83423	Attendant, sand stowing hopper
	83424	Driver, tar-spreading machine/ Operator, spreader: tar
	83425	Driver/operator (shovel (mechanical)/ excavating machine/ digger (trench digging)
	83426	Driver/ operator (bulldozer/ road grader and scraper/ mate, road roller/ digger: trench digging/Driver, steamroller/Driver, streetsweeper.
	83427	<b>Driver/operator</b> spreader (concrete/asphalt)/ strike off machine (concrete paving)/ earth-moving equipment/ machinery construction (tunneling/ tamping/ earth-boring construction/ air drill/Operator, front-end loaderOperator, grader and scraper: construction/Operator, machine: drain installation
	83428	Operator, snow groomer/Operator, spreader: stone (construction)/operator, drilling plant

Unit Group	Sub-unit Group	Description
<b>8343</b>		<b>Crane, hoist and related plant operators</b>
	83431	Crane-operator ((bridge)/ (crawler)/ (floating)/ (locomotive)/ (mobile)/ (railway)/ (stationary jib)/ (tower)/ (tractor)/ portal))
	83432	Driver (overhead crane/ stripper crane/ hoist machine)/ Driver/operator, cage (mine)/ Driver, cable railway/ funicular/Onsetter, mine
	83433	Operator, (conveyer/ bridge (any type)/ boat (derrick)/ chair-lift/cable car/ donkey engine/ elevator (material-handling)/ ropeway (aerial)/ winch/ capstan/ sluice (dock)/ lock (canal or port)/ turntable (railway)/ weighbridge)/ Hoist-operator (construction)/ (mine)/ (tugger))
	83434	Panman (assistant) (rubber manufacturing)/ Attendant, elevator/ Lock-keeper (canal or port)/ Gunner (crane)/ Banksman, mine
	83435	Onsetter (mine)/ Winding engineman (mine)/ Pressman, hydraulic/ Slinger
	83436	Master/ Attendant (dry dock)/ Sluiceman, dock
	83437	Operator, cable railway/Operator, funicular/Operator, lock: canal or port/ Operator, machine: electrical line installation/Operator, merry-go-round/ Operator, roller coaster/Operator, ski-lift
	83438	Tender, skip
<b>8344</b>		<b>Lifting truck operators</b>
	83441	Driver, Broadbent charger
	83442	Operator, truck (fork-lift/ industrial)
	83443	Charger machineman, (rolling mill)

### **835 Ships' deck crews and related workers**

Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.

Tasks performed usually include:

Standing look-out watches at sea and when entering or leaving harbour or other narrow waters; steering ship according to instructions; handling ropes and wires, and operating mooring equipment; maintaining and, in some cases, operating ship's equipment, cargo gear, rigging, life-saving and fire-fighting appliances; performing deck and hull cleaning, scraping, painting and other maintenance duties as required; breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

Occupations in this minor group are classified into the following unit groups:

8350 Ships' deck crews and related workers

#### **8350 Ships' deck crews and related workers**

Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.



Tasks include -

- (a) standing look-out watches at sea and when entering or leaving harbour or other narrow waters;
- (b) steering ship according to instructions;
- (c) handling ropes and wires, and operates mooring equipment;
- (d) maintaining and, in some cases, operating ship's equipment, cargo gear, rigging, life-saving and fire- fighting appliances;
- (e) performing deck and hull cleaning, scraping, painting and other maintenance duties as required;
- (f) breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

Examples of the occupations classified here:

- Boatswain
- Ferry hand
- Tug hand
- Sailor

<b>8</b>	<b>Major Group</b>	<b>Plant and machine operators, and assemblers</b>
<b>83</b>	<b>Sub-major Group</b>	<b>Drivers and mobile plant operators</b>
<b>835</b>	<b>Minor Group</b>	<b>Ships' deck crews and related workers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>8350</b>		<b>Ships' deck crews and related workers</b>
	83501	Bargeman/ Boatman (any type)/ Boatswain/ Ferryboat man/ Hand, deck
	83502	Coxswain, lifeboat/ Crewman, dredger/yacht
	83503	Life boatman/ Sailor/ Seaman (able/ ordinary)/ Secunny/ Serang
	83504	Tindal/ Tindal (engine room)
	83505	Waterman/ Ship's boy/ Lightshipman
	83506	Hand, cable-ship/Hand, ferry/Hand, tug
	83507	Keeper, lighthouse/Operator, barge



## Major Group 9

### Elementary Occupations

Elementary occupations involve the performance of simple and routine tasks which may require the use of hand-held tools and considerable physical effort. Most occupations in this major group require skills at the first ISCO skill level.

Tasks performed by workers in elementary occupations usually include:

Cleaning, restocking supplies and performing basic maintenance in apartments, houses, kitchens, hotels, offices and other buildings; washing cars and windows; helping in kitchens and performing simple tasks in food preparation; delivering messages or goods; carrying luggage and handling baggage and freight; stocking vending machines or reading and emptying meters; collecting and sorting refuse; sweeping streets and similar places; performing various simple farming, fishing, hunting or trapping tasks performing simple tasks connected with mining, construction and manufacturing including product-sorting; packing and unpacking produce by hand and filling shelves; providing various street services; pedaling or hand-guiding vehicles to transport passengers and goods; driving animal-drawn vehicles or machinery. Supervision of other workers may be included.

Occupations in this major group are classified into the following sub-major groups:

- 91 Cleaners and helpers
- 92 Agricultural, forestry and fishery labourers
- 93 Labourers in mining, construction, manufacturing and transport
- 94 Food preparation assistants
- 95 Street and related sales and service workers
- 96 Refuse workers and other elementary workers

#### 91 Cleaners and helpers

Cleaners and helpers perform various tasks in private households, hotels, offices, hospitals and other establishments, as well as in aircraft, trains coaches, trams and similar vehicles, in order to keep the interiors and fixtures clean, and launder and press garments and textiles by hand.

Tasks performed by workers in this sub-major group usually include:

Sweeping or vacuum cleaning, washing and polishing floors, furniture and other objects; taking care of linen and bed-making; helping with preparation of meals and cleaning in kitchens; washing and cleaning cars and windows; pressing or laundering garments and textiles by hand.

Occupations in this sub-major group are classified into the following minor groups:

- 911 Domestic, hotel and office cleaners and helpers
- 912 Vehicle, window, laundry and other hand cleaning workers

#### 911 Domestic, hotel and office cleaners and helpers

Domestic, hotel and office cleaners and helpers sweep, vacuum clean, wash, polish, take care of household linen, purchase household supplies; perform various tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.

Tasks performed usually include:

Sweeping or vacuum cleaning, washing and polishing floors, furniture and other objects in hotels, offices and other establishments; making beds, supplying towels, soap and related items; helping with

preparation of meals and washing dishes; cleaning, disinfecting and deodorising kitchens, bathrooms and toilets.

Occupations in this minor group are classified into the following unit groups:

9111 Domestic cleaners and helpers

9112 Cleaners and helpers in offices, hotels and other establishments

### **9111 Domestic cleaners and helpers**

Domestic cleaners and helpers sweep, vacuum clean, wash and polish, take care of household linen, purchase household supplies, prepare food, serve meals and perform various other domestic duties.

Tasks include -

- (a) sweeping, vacuum-cleaning, polishing and washing floors and furniture, or washing windows and other fixtures;
- (b) washing, ironing and mending linen and other textiles;
- (c) washing dishes;
- (d) helping with preparation, cooking and serving of meals and refreshments;
- (e) purchasing food and various other household supplies;
- (f) cleaning, disinfecting and deodorising kitchens, bathrooms and toilets;
- (g) cleaning windows and other glass surfaces.

Examples of the occupations classified here:

- Charworker (domestic)
- Domestic cleaner

Some related occupations classified elsewhere:

- Hotel cleaner - 9112
- Domestic housekeeper - 5152
- Hand launderer - 9121
- Street sweeper – 9613

### **9112 Cleaners and helpers in offices, hotels and other establishments**

Cleaners and helpers in offices, hotels and other establishments perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.

Tasks include -

- (a) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings, coaches, buses, trams, trains and aircraft;
- (b) making beds, cleaning bathrooms, supplying towels, soap and related items;
- (c) cleaning kitchens and generally helping with kitchen work, including dishwashing;
- (d) picking up rubbish, emptying garbage containers and taking contents to waste areas to removal.

Examples of the occupations classified here:

- Cleaner, aircraft
- Cleaner, hotel
- Cleaner, office
- Lavatory attendant

Some related occupations classified elsewhere:

- Caretaker, building - 5153
- Cleaner, domestic - 9111

- Housekeeper, domestic - 5152
- Sweeper, street - 9613
- Helper, kitchen - 9412
- Dishwasher – 9412

#### Notes

Workers who perform cleaning and helping tasks only in kitchens and other food preparation areas are classified in Unit Group 9412, kitchen helpers.

- 9 **Elementary Occupations**
- 91 **Cleaners and helpers**
- 911 **Domestic cleaners and helpers**

Unit Group	Sub-unit Group	Description
<b>9111</b>		<b>Domestic cleaners and helpers</b>
	91111	Bearer/ Gentleman's man
	91112	Charworker ,domestic
	91113	Houseboy/ Housemaid
	91114	Helper, domestic(parlour/kitchen)
	91115	Maid (parlour
	91116	Cleaner, domestic
<b>9112</b>		<b>Cleaners and helpers in offices, hotels and other establishments</b>
	91121	Chambermaid/ Charworker (non-domestic)
	91122	Cleaner and helper (factory/ office/ hotel/restaurant/ furniture/ turbine/ bus/train/ aircraft/ garage)
	91123	Attendant (laboratory)
	91124	Khalasi (personal services/ survey)
	91125	Jamadar/ Naib Qusid/ Peon/ Frash
	91126	Charworker( hotel/ office/ restaurant)
	91127	Cleaner, hospital/Contractor, cleaning
	91128	Maid, chamber/Maid, linen/Sweeper, floor

## 912 Vehicle, window, laundry and other hand cleaning workers

Vehicle, window, laundry and other hand cleaning workers clean windows, showcases or other surfaces of buildings or vehicles and press, launder or dry-clean linen and other textiles by hand.

Tasks usually include:

Cleaning, washing and polishing cars; washing windows or other glass surfaces with water or various solutions, drying and polishing them; laundering and pressing linen, clothing, fabrics and similar articles by hand in a laundry or other establishments;  
cleaning by hand and with chemical solutions clothing, fabrics leather goods and similar articles in dry-cleaning or other establishments.

Occupations in this minor group are classified into the following unit groups:

- 9121 Hand launderers and pressers
- 9122 Vehicle cleaners
- 9123 Window cleaners
- 9129 Other cleaning workers

## **9121 Hand launderers and pressers**

Hand launderers and pressers launder, press or dry-clean garments, linen and other textiles by hand.

Tasks include –

- (a) laundering and pressing linen, clothing, fabrics and similar articles by hand in a laundry or other establishment;
- (b) cleaning, by hand and with chemical solutions, clothing, fabrics, leather goods and similar articles, in a dry-cleaning or other establishment;
- (c) replacing buttons and making minor repairs;
- (d) placing articles on shelves and hanging articles for delivery and collection.

Examples of the occupations classified here:

- Dry-cleaner, hand
- Launderer, hand
- Presser, hand

Some related occupations classified elsewhere:

- Dry-cleaning machine operator - 8157
- Pressing machine operator (laundry) - 8157
- Laundry machine operator – 8157

## **9122 Vehicle cleaners**

Vehicle cleaners, wash, clean and polish vehicles.

Tasks include -

- (a) cleaning, washing and polishing cars and other vehicles, by hand or using hand-held power tools;
- (b) vacuuming vehicle interiors and dry cleaning carpets and upholstery;
- (c) applying cleaning agents to remove stains from vehicle exteriors and interiors;
- (d) washing tyres and wheel arches and blackening tyres;
- (e) washing and polishing vehicle windows;
- (f) emptying and cleaning compartments in vehicles.

Examples of the occupations classified here:

- Vehicle washer (hand)
- Car detailer

## **9123 Window cleaners**

Window cleaners wash and polish windows and other glass fittings.

Tasks include -

- (a) washing windows or other glass surfaces with water or various solutions, drying and polishing them;
- (b) using ladders, swinging scaffolds, bosun's chairs, hydraulic bucket trucks and other equipment to reach and clean windows in multi – storey buildings.
- (c) selecting appropriate cleaning or polishing implement

Examples of the occupations classified here:

- Window cleaner

## 9129 Other cleaning workers

Other cleaning workers clean surface, materials and objects, such as carpets, walls, swimming pools and cooling towers, using specialized cleaning equipment and chemicals.

Tasks include -

- (a) Cleaning carpets and upholstered furniture using cleaning machines and their attachments.
- (b) Selecting and applying cleaning agents to remove stains from carpets
- (c) Treating carpets with soil-repellent chemicals and deodorants, and treating for pests
- (c) Cleaning stone walls, metal surfaces and fascias using high pressure water cleaners and solvents.
- (e) Applying chemicals and high pressure cleaning methods to remove micro-organisms from water and filtration systems and using wet vacuums and other suction equipment to remove scale, accumulated dirt and other deposits from swimming pools, cooling tower components and drains.

Examples of the occupations classified here:

- Carpet cleaner
- Cooling tower cleaner
- Graffiti cleaner
- Swimming pool cleaner

## 9 Elementary Occupations

### 91 Cleaners and helpers

#### 912 Vehicle, window, laundry and other hand cleaning workers

Unit Group	Sub-unit Group	Description
9121	<b>Hand launderers and pressers</b>	
	91211	Aid/Maid (laundry/ linen)/ Starcher
	91212	Dhobi/ Launderer (hand)/ Washer, hand (laundry)
	91213	Dryer, hand (laundry)/ Ironer
	91214	Cleaner, dry: hand
	91215	Presser, hand
	91216	Spotter, dry-cleaning
	<b>9122 Vehicle cleaners</b>	
	91221	Cleaner/Washer, vehicles (hand)
	91222	Car detailer
	91223	Detailer, aircraft
	91224	Detailer, boat
	91225	Detailer, car
	91226	Detailer, caravan/Detailer, vehicles
	<b>9123 Window cleaners</b>	
	91231	Cleaner, window
	91232	Washer, window
9129	<b>Other cleaning workers</b>	
	91291	Carpet cleaner
	91292	Swimming pool cleaner
	91293	Cooling tower (Air conditioner) cleaner

Unit Group	Sub-unit Group	Description
	91294	Blaster, water: cleaning/Cleaner( cooling tower/ drain/ dry: carpet/ filter/ graffiti/ gutter/ pool/ upholstery and other cleaning worker)
	91295	Dry-cleaner, carpet/Hydroblaster, cleaning/Hydroblaster, graffiti removal Operator, machine: high pressure cleaning/Operator, machine: water blasting
	91296	Removalist, graffiti/Remover, graffiti/Serviceperson, filter/Serviceperson, swimming pool: cleaning
	91297	Technician, carpet cleaning/Technician, pool: cleaning/Technician, swimming pool: cleaning

## 92 Agricultural, forestry and fishery labourers

Agricultural, forestry and fishery labourers perform simple and routine tasks in the production of crops and livestock, cultivation and maintenance of gardens and parks, exploitation and conservation of forests, and conduct of aquaculture and fisheries operations.

Tasks performed usually include:

Digging, raking and shovelling using hand tools; loading unloading and stacking supplies, produce and other materials; watering, thinning, weeding and tending crops by hand or using hand tools; planting, harvesting picking and collecting produce by hand; feeding, watering, and cleaning animals and keeping their quarters clean; monitoring livestock, reporting on their condition; preparing and operating nets, lines and other fishing tackle and deck equipment ;grading, sorting, bunching and packing produce into containers; performing minor repairs on fixtures, buildings equipment, vessels and fences.

Occupations in this sub-major group are classified into the following minor group:

921 Agricultural, forestry and fishery labourers

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Digging, raking and shovelling using hand tools; loading unloading and stacking supplies, produce and other materials; watering, thinning, weeding and tending crops by hand or using hand tools; planting, harvesting picking and collecting produce by hand; feeding, watering, and cleaning animals and keeping their quarters clean; monitoring livestock, reporting on their condition; preparing and operating nets, lines and other fishing tackle and deck equipment; grading, sorting, bunching and packing produce into containers; performing minor repairs on fixtures, buildings equipment, vessels and fences.

Occupations in this minor group are classified into the following unit groups:

- 9211 Crop farm labourers
- 9212 Livestock farm labourers
- 9213 Mixed crop and livestock farm labourers
- 9214 Garden and horticultural labourers
- 9215 Forestry labourers
- 9216 Fishery and aquaculture labourers



## Notes

Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in minor group 921, Agricultural, forestry and fishery labourers. Workers in an agricultural setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors.

### **9211 Crop farm labourers**

Crop farm labourers perform simple and routine tasks in the production of crops such as fruit, nuts, grains and vegetables on farms.

Tasks include -

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) raking, pitching and stacking straw, hay and similar material;
- (d) watering, thinning, and weeding crops by hand or using hand tools;
- (e) picking fruit, nuts, vegetables and other crops;
- (f) planting and harvesting field crops, such as rice, by hand;
- (g) grading, sorting, bunching and packing produce into containers;
- (h) performing minor repairs on fixtures, buildings and fences.

Examples of the occupations classified here:

- Cane planter
- Fruit picker
- Rice farm labourer
- Vegetable picker

Some related occupations classified elsewhere:

- Skilled farm worker (field crops) - 6111
- Construction labourer - 9313
- Firewood collector - 9624
- Water collector – 9624

### **9212 Livestock farm labourers**

Livestock farm labourers perform simple and routine tasks in farm production of animals, including poultry and insects.

Tasks include -

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) feeding, watering, and cleaning animals and keeping their quarters clean;
- (d) monitoring livestock and reporting on their condition;
- (e) assisting with maintaining the health and welfare of livestock;
- (f) assisting with herding, droving and separating livestock for milking, shearing transportation or slaughter and between pastures;
- (g) collecting eggs and placing in incubators;
- (h) raking, pitching, stacking and storing hay, straw and other types of animal feed and bedding
- (i) grading, sorting, packing produce into containers;
- (j) performing minor repairs on fixtures, buildings and fences.

Examples of the occupations classified here:

- Livestock farm labourer

Some related occupations classified elsewhere:

- Shepherd – 6121
- Skilled farm worker (livestock) - 6121
- Drover - 6121
- Firewood collector - 9624
- Water collector – 9624

### **9213 Mixed crop and livestock farm labourers**

Mixed crop and livestock farm labourers perform simple and routine tasks in farm production of both crops and animals.

Tasks include -

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) raking, pitching and stacking straw, hay and similar material;
- (d) watering, thinning, and weeding crops by hand or using hand tools;
- (e) picking fruit, nuts, vegetables and other crops and collecting eggs;
- (f) planting and harvesting field crops, such as rice, by hand;
- (g) feeding, watering, and cleaning animals and keeping their quarters clean;
- (h) monitoring livestock, reporting on their condition;
- (i) assisting with herding, droving and separating livestock for milking, shearing transportation or slaughter and between pastures;
- (j) grading, sorting, bunching and packing produce into containers;
- (k) performing minor repairs on fixtures, buildings and fences.

Examples of the occupations classified here:

- Farm labourer

Some related occupations classified elsewhere:

- Skilled farm worker (mixed crop and livestock) - 6130
- Firewood collector - 9624
- Water collector – 9624

### **9214 Garden and horticultural labourers**

Garden and horticultural labourers perform simple and routine tasks in operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques.

Tasks include -

- (a) loading, unloading and moving supplies, produce and equipment;
- (b) preparing garden sites and plots using hand tools and simple machines;
- (c) assisting with planting and transplanting flowers, shrubs, trees and lawns;
- (d) maintaining gardens by watering, weeding and mowing lawns;
- (e) cleaning gardens and removing rubbish;
- (f) assisting with propagating, planting and potting seeds, bulbs and cuttings;
- (g) tending plants by hand watering and weeding;
- (h) harvesting and packaging plants for sale and transport;
- (i) performing minor repairs on fixtures, buildings and fences.

Examples of the occupations classified here:

- Garden labourer
- Horticultural labourer

- Lawn mower
- Nursery labourer

Some related occupations classified elsewhere:

- Market gardener - 6113
- Landscape gardener - 6113
- Horticulturist - 6113
- Crop farm labourer – 9211

## **9215 Forestry labourers**

Forestry labourers perform simple and routine tasks to cultivate and maintain natural and plantation forests, and logging, felling and sawing trees.

Tasks include -

- (a) digging holes for tree planting;
- (b) stacking and loading logs and timber;
- (c) clearing undergrowth in forest stands and thinning young plantations;
- (d) maintaining look-out for fires in forests;
- (e) removing major branches and tree tops, trimming branches and sawing trunks into logs;
- (f) operating and maintaining manual and hand held machine saws to fell trees and cut felled trees and branches into logs;
- (g) collecting seeds, and planting seedlings;
- (h) performing minor repairs and maintenance of forest roads, buildings, facilities, and equipment.

Examples of the occupations classified here:

- Axeman/woman
- Forestry labourer
- Tree planter

Some related occupations classified elsewhere:

- Forestry worker (skilled)- 6210

## **9216 Fishery and aquaculture labourers**

Fishery and aquaculture labourers, perform simple and routine tasks to cultivate, catch and harvest fish and seafood in aquaculture and inland, coastal and deep sea fishing operations.

Tasks include -

- (a) cleaning the sea-bed and feeding fish and molluscs that are being cultivated;
- (b) gathering seaweed, sea mosses, clams and other molluscs;
- (c) preparing nets, lines and other fishing tackle and other deck equipment;
- (d) operating fishing gear to catch fish and other marine life;
- (e) cleaning, sorting and packing fish and seafood in ice and salt and stowing catch in hold;
- (f) cleaning deck surfaces and fish hold;
- (g) handling mooring lines during docking.

Examples of the occupations classified here:

- Aquaculture labourer
- Fishery labourer

Some related occupations classified elsewhere:

- Fish farmer - 6221

- Coastal fishery skipper - 6222
- Fisherman/woman (coastal waters) - 6222
- Fisherwoman/man (inland waters) - 6222
- Deep sea fisherman/woman - 6223
- Trawler skipper – 6223

<b>9</b>	<b>Elementary Occupations</b>
<b>92</b>	<b>Agricultural, forestry and fishery labourers</b>
<b>921</b>	<b>Agricultural, forestry and fishery labourers</b>

Unit Group	Sub-unit Group	Description
<b>9211</b>		<b>Crop farm labourers</b>
	92111	Labourer, farm (casual/seasonal)
	92112	Labourer, farm (field crops)/ Helper (farm)/ Hand, harvest
	92113	Picker/ Cutter (cotton/ fruit/ tea/ herbs/ vegetables/ sugar cane)/ Planter, cane
	92114	Hand, farm: cotton picking/ field crops/ fruit picking/ orchard/Hand, farm: tea
	92115	Labourer , farm( cotton/ rice farm)
<b>9212</b>		<b>Livestock farm labourers</b>
	92121	Collector (animal)/ Cowboy/ Cowherd Groom
	92122	Hand, farm (livestock/ fur-bearing animals/ dairy )
	92123	Labourer, cattle station
	92124	Milker (hand)
	92125	Milking-machine operator/ Pastoralist
	92126	Stockman (livestock)/ Stable lad
	92127	Collector, egg/Groom, horse/ <b>Stud</b> /Hand, farm: silk worms/Hand, stable/Labourer, ranch/Lass, stable
<b>9213</b>		<b>Mixed crop and livestock farm labourers</b>
	92131	Farm labourer (Mixed crop and livestock)
	92132	Helper, farm
	92133	Labourer, farm
<b>9214</b>		<b>Garden and horticultural labourers</b>
	92141	Baildar/ Nursery labourer
	92142	Garden labourer
	92143	Horticultural labourer
	92144	Assistant <b>gardener's</b> / greenkeeper's/ horticultural nursery/Contractor, lawn mowing/ Contractor, mowing/Cutter, lawn
	92145	Hand( garden/ nursery: horticulture/plant nursery)/Labourer, cemetery: gardening/ Labourer, council: gardening/Lawnmower
	92146	Lopper, tree/Pruner, tree: garden maintenance/Tree lopper/Trimmer, tree: garden , maintenance/ (Worker, garden/Worker ,garden maintenance/ nursery: horticulture/ plant nursery)

Unit Group	Sub-unit Group	Description
<b>9215</b>		<b>Forestry labourers</b>
	92151	Forestry labourer
	92152	Stump-grubber/ Tree planter/ Axeman
	92153	Chokerman/ Chokerwoman
	92154	Clearer, tree
	92155	Climber, tree
	92156	Swamper, logging
	92157	Worker, timber: forestry
<b>9216</b>		<b>Fishery and aquaculture labourers</b>
	92161	Labourer (fishery)/ Beachcomber/ Gatherer, seaweed/ Gatherer, shellfish
	92162	Labourer, hunting
	92163	Labourer, trapping
	92164	Labourer, aquaculture
	92165	Labourer, fish farm

### 93 Labourers in mining, construction, manufacturing and transport

Labourers in mining, construction, manufacturing and transport perform simple and routine manual tasks in mining, quarrying, civil engineering, building, manufacturing, transport and storage operations, and operate human powered and animal drawn vehicles and machinery.

Task performed by workers in this sub-major group usually include:

Digging holes and spreading excavated materials, sand, soil, and gravel using hand-held tools; sorting, loading, unloading, moving stacking and storing materials, equipment, products, supplies, baggage and cargo by hand; cleaning machinery, equipment, tools and work sites; packing and unpacking material and products and filling containers and shelves with products by hand; operating human powered and animal drawn vehicles and machinery.

Occupations in this sub-major group are classified into the following minor groups:

- 931 Mining and construction labourers
- 932 Manufacturing labourers
- 933 Transport and storage labourers

#### 931 Mining and construction labourers

Mining and construction labourers perform simple and routine manual tasks in mining, quarrying, civil engineering and building operations.

Tasks usually include:

Digging and filling holes and trenches using hand held tools; shovelling and spreading excavated materials, sand, soil, and gravel; sorting, loading, unloading, stacking and storing tools, materials and equipment and transporting them around work sites; cleaning machinery, equipment, tools and work sites and removing obstructions.

Occupations in this minor group are classified into the following unit groups:

- 9311 Mining and quarrying labourers
- 9312 Civil engineering labourers
- 9313 Building construction labourers

### **9311 Mining and quarrying labourers**

Mining and quarrying labourers perform routine tasks in mining and quarrying operations.

Tasks include -

- (a) assisting miners and quarryers in maintaining machinery, equipment, and mine and quarry installations;
- (b) assembling and dismantling mining equipment;
- (c) removing tunnel supports from disused workings in mines and quarries;
- (d) removing dangerous projections from mine and quarry workings;
- (e) removing waste and serviceable materials and equipment from work areas after extraction activities have been completed, and clearing rock and mineral spills;
- (f) cleaning machinery, equipment, tools, roadways and haulage tracks;
- (g) sorting, loading, unloading, stacking and storing tools, materials and supplies used by other mine workers.

Examples of the occupations classified here:

- Coal sampler
- Mining labourer
- Quarry labourer

Some related occupations classified elsewhere:

- Driller (mining) - 8111
- Miner - 8111
- Mining plant operator - 8111
- Quarrier - 8111
- Driller (oil or gas well) - 8113
- Drilling plant operator – 8113

### **9312 Civil engineering labourers**

Civil engineering labourers perform routine tasks in connection with the building and maintenance of roads, railways, dams and other civil engineering projects.

Tasks include -

- (a) digging and filling holes and trenches using hand held tools;
- (b) shovelling and spreading gravel and related materials;
- (c) trimming and cutting rocks and concrete and bitumen surfaces using jack-hammers;
- (d) loading and unloading construction materials, excavated material and equipment and transporting them around construction sites using wheelbarrows and hand trucks;
- (e) cleaning worksites and removing obstructions.

Examples of the occupations classified here:

- Construction labourer (civil engineering)
- Maintenance labourer (dams)
- Earthmoving labourer

### **9313 Building construction labourers**

Building construction labourers perform routine tasks in connection with building construction and demolition work.

Tasks include -

- (a) cleaning used building bricks and doing other simple work on demolition sites;
- (b) mixing pouring and spreading materials such as concrete, plaster and mortar
- (c) digging and filling holes and trenches using hand held tools;
- (d) spreading sand, soil, gravel and similar materials;
- (e) loading and unloading construction materials, excavated material and equipment and transporting them around construction sites using wheelbarrows, hods and hand trucks;
- (f) cleaning work sites and removing obstructions.

Examples of the occupations classified here:

- Bricklayer's assistant
- Construction labourer (building work)
- Demolition Labourer
- Hod carrier

Some related occupations classified elsewhere:

- Bricklayer - 7112
- House builder - 7111
- Building wrecker – 7119

<b>9</b>	<b>Elementary Occupations</b>
<b>93</b>	<b>Labourers in mining, construction, manufacturing and transport</b>
<b>931</b>	<b>Mining and construction labourers</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>9311</b>		<b>Mining and quarrying labourers</b>
	93111	Digger (chalk, clay gravel or sand)
	93112	Labourer digging (mining and quarrying)/ Hauler (mining)
<b>9312</b>		<b>Civil engineering labourers</b>
	93121	Chainman (surveying)/ Clearer, (land)/ Cleaner (karez)
	93122	Labourer, digging (ditch/trench)/ Labourer, well (Lube/water)
	93123	Mazdoor/Navvy
	93124	Mucker (except mine)/ Shoveller
	93125	Labourer, maintenance/ construction (dams/roads)/ Roadman (surveying)
	93126	Labourer, plate layer (railways)/ Trackman, railway/ Repairman, track
	93127	Cooly, rig/ Labourer, earthmoving/ tube well
	93128	Digger (ditch/trench/ karez)/ Gore kun (grave digger)
<b>9313</b>		<b>Building construction labourers</b>
	93131	Carrier( hod/bricks/Hoddie )
	93132	Handyman (building maintenance)
	93133	Labourer, construction (buildings)/ Stacker (building construction)
		Labourer,builder
	93134	Labourer, demolition
	93135	Assistant, bricklayer's/ carpenter's
	93136	Mate, bricklayer's/Mate, builder's/Mate, carpenter's

## **932 Manufacturing labourers**

Manufacturing labourers perform a variety of manual tasks in manufacturing, assist the work of machine operators and assemblers, and undertake product-sorting and hand-assembling of components.

Tasks performed usually include:

Packing material and various products by hand; filling bottles, boxes, bags and other containers with products by hand; labelling products and containers by hand; conveying goods, material, equipment to work area; cleaning machinery, equipment and tools; carrying out manual sorting of products or components; carrying out simple hand-assembling of components.

Occupations in this minor group are classified into the following unit groups:

9321 Hand packers

9329 Manufacturing labourers not elsewhere classified

### **9321 Hand packers**

Hand packers weigh, pack and label materials and products by hand.

Tasks include -

- (a) weighing, wrapping, sealing and packing material and various products by hand;
- (b) filling bottles, cans, boxes, bags and other containers with products by hand;
- (c) labelling products, packages and various containers by hand.

Examples of the occupations classified here:

- Labeller (hand)
- Packer (hand)
- Wrapper (hand)

Some related occupations classified elsewhere:

- Labelling machine operator - 8183
- Packing machine operator - 8183
- Wrapping machine operator - 8183

### **9329 Manufacturing labourers not elsewhere classified**

Manufacturing labourers not elsewhere classified assist the work of machine operators and assemblers and perform a variety of manual tasks in manufacturing, excluding packing and labelling finished products.

Tasks include -

- (a) conveying goods, material, equipment, etc. to work area, removing finished pieces;
- (b) loading and unloading vehicles, trucks and trolleys;
- (c) clearing machine blockages, cleaning machinery, equipment and tools;
- (d) carrying out manual sorting of products or components.

Examples of the occupations classified here:

- Bottle sorter
- Factory hand
- Material handler
- Stacker

Some related occupations classified elsewhere:

- Assembler, electrical equipment - 8212
- Assembler, electronic equipment - 8212



- Assembler, leather products - 8219
- Assembler, rubber products - 8219
- Hand packer – 9321

## 9 Elementary Occupations

### 93 Labourers in mining, construction, manufacturing and transport

#### 932 Manufacturing labourers

Unit Group	Sub-unit Group	Description
9321		<b>Hand packers</b>
	93211	Bagger, hand/ Baleman/Crater,hand
	93212	Bandagepacker/ Bundler/ Khamali
	93213	Hand packing/ Packer (hand)/ Wrapper (hand)/ Worker (packaging)
	93214	Labeller, hand
9329		<b>Manufacturing labourers not elsewhere classified</b>
	93291	Bottler (hand)/ Sorter, (bottle/ Rag)/ Cellarhand, wine production/Hand, cellar: wine production/Hand, factory/Handler, material: manufacturing/Labourer, factory/Winder, filament: hand
	93292	Doffer, cloth/ Duster (tyre)/ Grainer (zinc)/ Hand, cannery/ Hand, shuttle
	93293	Mould catcher (glass manufacturing)/ Bubble cooler (glass manufacturing)/ Press cutter (glass manufacturing)/ Sandwasher (glass manufacturing)
	93294	Pegging boy (textiles)/ Joiner, thread (rubber)/ Table man (textiles)/ Starch mixer
	93295	Reacher (drawer in assistant)/ Operator, proofing/ Supplier, type/ Repairer (reed/heald/ plastic) / Washer, hand (carcass/ cloth/yarn/ fiber/ manufacturing process. )
	93296	Attendant (oil tank/ water softener tank)/ Mixer (size, textiles/ water proof Striker (blacksmith's)/ Trimmer (rubber)/Blocker out (glass)/Boxer(hand packing)/ Operator ,ripping/ machine(tobacco)/Operator, splitting. machine(tobacco)/ Presser(glass)/ <b>Labourer, manufacturing</b>
	93297	General worker, leaf department (tobacco)
	93298	Charger (battery)/ Repairman ( armature/ coil/ transformer/ assembling)/ Maker, pot (tubes)/ Moulder, autoclave/ Kierman (bleaching)/ Labourer, wine production/ Lampman/ Lifter, jack/ Winder(rotor/stator/ transformer) (hand)/ <b>Assistant workshop/Winder, ciol/armature (hand)</b>

#### 933 Transport and storage labourers

Transport and storage labourers propel cycles and similar vehicles and drive animal-drawn vehicles to transport passengers or goods, drive animal-drawn machinery, handle freight and baggage and stock shelves

Tasks performed usually include:

Propelling cycles and similar vehicles to transport passengers or goods, driving animal-drawn vehicles to transport passengers or goods, driving animal-drawn machinery, carrying out freight handling by hand, and stocking shelves and display areas in stores.

Occupations in this minor group are classified into the following unit groups:

- 9331 Hand and pedal vehicle drivers
- 9332 Drivers of animal-drawn vehicles and machinery
- 9333 Freight handlers
- 9334 Shelf fillers

### **9331 Hand and pedal vehicle drivers**

Hand or pedal vehicle drivers propel cycles and similar vehicles to transport passengers or goods.

Tasks include -

- (a) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- (b) moving vehicle in the desired direction with due regard to other traffic and traffic regulations;
- (c) inspecting vehicle components to identify wear and damage;
- (d) maintaining vehicle, making minor repairs and installing replacement parts;
- (e) collecting fares or charges.

Examples of the occupations classified here:

- Driver, pedal vehicle
- Driver, cycle rickshaw
- Puller, rickshaw

Some related occupations classified elsewhere:

- Bicycle racer - 3421
- Motorcycle rider – 8321

### **9332 Drivers of animal-drawn vehicles and machinery**

Drivers of animal-drawn vehicles and machinery drive animal-drawn vehicles to transport passengers or goods, as well as animal-drawn machinery usually in connection with farming.

Tasks include -

- (a) harnessing animals and hitching them to vehicles or machinery;
- (b) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- (c) driving animals in the desired direction with due regard to other traffic and traffic regulations;
- (d) collecting fares or charges;
- (e) driving animals to haul wagons in mines or quarries;
- (f) driving animals hitched to farm or other machinery;
- (g) driving working elephants;
- (h) maintaining vehicle or machinery, making minor repairs and installing replacement parts;
- (i) grooming and feeding animals.

Examples of the occupations classified here:

- Driver, animal-drawn vehicle
- Driver, animal train
- Mahout

Some related occupations classified elsewhere:

- Jockey – 3421

### **9333 Freight handlers**

Freight handlers carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and

stacking goods in various warehouses.

Tasks include -

- (a) packing office or household furniture, machines, appliances and related goods to be transported
- (b) from one place to another;
- (c) carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships, or aircraft;
- (d) loading and unloading grain, coal, sand and similar goods by placing them on conveyor-belts, pipes, etc.;
- (e) connecting hoses between main shore installation pipes and tanks of barges, tankers and other ships to load and unload petroleum, liquefied gases and other liquids;
- (f) carrying and stacking goods in warehouses and similar establishments;
- (g) sorting cargo prior to loading and unloading;

Examples of the occupations classified here:

- Handler, freight

Some related occupations classified elsewhere:

- Operator, crane -8343
- Operator, truck/lifting – 8344

### **9334 Shelf fillers**

Shelf fillers stock shelves and display areas and keep stock clean and in order in supermarkets and other retail and wholesale shops.

Tasks include -

- (a) placing goods neatly in bins and on racks, and stacking bulky goods on floors;
- (b) filling shelves with goods ensuring goods with the earliest use-by dates are at the front of shelves;
- (c) removing goods with past due use-by dates;
- (d) maintaining shelf order by removing stock belonging in a different location;
- (e) noting what has been sold and collecting goods needed from the stockroom;
- (f) obtaining articles for customers from shelf or stockroom;
- (g) directing customers to location of articles sought;
- (h) receiving, opening, unpacking, and inspecting for damage merchandise from manufacturer or distributor.

Examples of the occupations classified here:

- Filler, stock
- Handler, stock

## **9 Elementary Occupations**

### **93 Labourers in mining, construction, manufacturing and transport**

#### **933 Transport and storage labourers**

Unit Group	Sub-unit Group	Description
9331		<b>Hand or pedal vehicle drivers</b>
	93311	Berther, dock
	93312	Driver, rickshaw/ Rickshaw boy/ Driver, tricycle (non-motorised)
	93313	Pedal vehicle driver/Rider bicyclr,tricycle/
	93314	Cyclist, except racing/Deliverer, bicycle
	93315	Driver( hand truck/ rickshaw: cycle)

Unit Group	Sub-unit Group	Description
9332	93316	Driver, rickshaw: foot/ taxi: bike
	93317	Messenger, bicycle/Puller, rickshaw/Tricyclist
		<b>Drivers of animal-drawn vehicles and machinery</b>
	93321	Driver, farm equipment (non-motorised)
	93322	Driver, animal-drawn vehicle (mine/quarry)
	93323	Driver, animal-drawn vehicle (road transport)
	93324	Driver (tonga/ Gadha Gari/ Rehra)
	93325	Mahout
	93326	Driver,camel/moule/elephant
	93327	Driver ,baggi
	93328	Horse driver, road transport
		<b>Freight handlers</b>
	93331	Docker/ Freight handler/Coalman
	93332	Cooly
9333	93333	Porter (goods-loading / cold-storage/ food/fruit market/ warehouse/ shop) (Fish/meat)
	93334	Mover/Remover (Furniture/ household goods)
	93335	Loader (aircraft/ ship (also gasses/liquids)/ cargo/ furniture)/ Stevedore / Longshoreman
	93336	Loader, railway and road vehicle
	93337	Attendant, airport: handling baggage/Handler, baggage/Loader, boat/ Unloader, freight
		<b>Shelf fillers</b>
	93341	Filler/ Handler (stock )/ Assistant, cabinet: supermarket (filling shelf, fridge or freezer)/Assistant, evening fill
	93342	Assistant, grocery: filling shelf, fridge or freezer/Assistant, merchandise: filling shelf, fridge or freezer/Assistant, nightfill/Assistant, sales: filling shelf, fridge or freezer/Assistant, sales: nightfill/Assistant, sales: supermarket (stock control)
	93343	Captain, night: supermarket/Filler, day/Filler, evening /Filler, night/Filler, shelf/Nightfiller
	93344	Re filler, filling shelf, fridge or freezer/Replenisher, shelf/Replenisher, stock/ Packer, shelf, night fill
9334	93345	Stacker, shelf/ Stocker, shelf/ Worker, night fill

## 94 Food preparation assistants

Food preparation assistants prepare and cook to order a small variety of pre-cooked food or beverages, clear tables, clean kitchen areas and wash dishes.

Tasks performed by workers in this sub major group usually include:

Preparing simple or pre-prepared foods and beverages such as sandwiches, pizzas, fish and chips, salads, and coffee; washing, cutting, measuring and mixing foods for cooking; operating cooking equipment such as grills, microwaves and deep-fat fryers; cleaning kitchens, food preparation areas and service areas; cleaning cooking and general utensils used in kitchens and restaurants .

Occupations in this sub major group are classified into the following minor group:

941 Food preparation assistants

## **941 Food preparation assistants**

Food preparation assistants prepare and cook to order small variety of pre-cooked food or beverages, clear tables, clean kitchen areas and wash dishes.

Tasks performed usually include:

Preparing simple or pre-prepared foods and beverages such as sandwiches, pizzas, fish and chips, salads, and coffee; washing, cutting, measuring and mixing foods for cooking; operating cooking equipment such as grills, microwaves and deep-fat fryers; cleaning kitchens, food preparation areas and service areas; cleaning cooking and general utensils used in kitchens and restaurants .

Occupations in this minor group are classified into the following unit groups:

9411 Fast food preparers

9412 Kitchen helpers

### **9411 Fast food preparers**

Fast food preparers prepare and cook to order a limited range of foods or beverages that involve simple preparation processes and a small number of ingredients. They may take orders from customers and serve at counters or tables.

Tasks include -

- (a) preparing simple or pre-prepared foods and beverages such as sandwiches, hamburgers, pizzas, fish and chips, salads, and coffee;
- (b) washing, cutting, measuring and mixing foods for cooking;
- (c) operating large-volume single-process cooking equipment such as grills, deep-fat fryers or griddles;
- (d) re-heating pre-prepared food
- (e) cleaning food preparation areas, cooking surfaces and utensils;
- (f) taking and serving food and beverage orders in eating places that specialize in fast service and carry- out food;
- (g) ordering and taking delivery of fast food ingredients;
- (h) maintaining sanitation, health, and safety standards in work areas.
- (i) operating large-volume cooking equipment such as grills, deep-fat fryers, or griddles.
- (j) verifying that prepared food meets requirements for quality and quantity.

Examples of the occupations classified here:

- Fast-food cook
- Short order Cook

Some related occupations classified elsewhere:

- Chef-3434
- Cook-5120
- Food service counter attendant – 5246

### **9412 Kitchen helpers**

Kitchen helpers clear tables, clean kitchen areas, wash dishes, preparing ingredients and perform other duties to assist workers who prepare or serve food and beverages.

Tasks include -

- (a) cleaning kitchens, food preparation areas and service areas;
- (b) assisting cooks and chefs in preparation of food by washing, peeling, chopping, cutting up measuring and mixing ingredients,
- (c) assembling dishes for service.
- (d) unpacking and storing supplies in refrigerators, cupboards and other storage areas.

- (e) washing dishes and cooking utensils and putting them away;
- (f) checking, transferring, weighing and storing supplies in refrigerators, cupboards and other storage areas;
- (g) preparing, cooking, toasting and heating simple food items.

Examples of the occupations classified here:

- Hand dish washer
- Kitchen assistant
- Kitchen hand
- Kitchen porter
- Kitchen steward
- Pantry attendant

Some related occupations classified elsewhere:

- Cook - 5120
- Fast food preparer – 9411

## **9 Elementary Occupations**

### **94 Food preparation assistants**

#### **941 Fast food preparers**

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>9411</b>	<b>Fast food preparers</b>	
	94111	Cook (fast food/ short order)/ Cook, hamburgers/Cook, pizza/Cook, take away
	94112	Maker, pizza/Hand, pizza
	94113	Handler, food: fast food
	94114	Maker, burger/ fast food/ hamburger
	94115	Member, team: fast food (cooking)/Trainer, crew: fast food
<b>9412</b>	<b>Kitchen helpers</b>	
	94121	Kitchen hand/ Kitchen assistant/ Kitchen helper/ Masalchi
	94122	Hand dish washer
	94123	Attendant, pantry
	94124	Porter, kitchen/ <b>helper domestic (parlour/kitchen)</b>
	94125	Steward, kitchen/Stewardess, kitchen

## **95 Street and related sales and service workers**

Street and related sales and service workers provide sell goods, excluding food for immediate consumptions, and provide a variety of services on streets and in other public places such as stations.

Tasks include:

Buying or making various items for sale; loading and unloading items for sale and transporting them; obtaining the materials necessary to perform services; approaching people on the street to offer goods or services; cleaning and polishing shoes; cleaning and polishing car windows; running errands; assisting drivers to find a parking place and ensuring car is not damaged during driver's absence; handing out leaflets and free newspapers; receiving immediate payment.

Occupations in this sub-major group are classified into the following minor groups:

951 Street and related service workers

952 Street vendors (excluding food)

## **951 Street and related service workers**

Street and related service workers provide a variety of services on streets and in other public places, including cleaning shoes, washing car windows, running errands, looking after property, and providing other on-the-spot street services.

Tasks include:

Obtaining the materials necessary to perform services; approaching people on the street to offer services; cleaning and polishing shoes; cleaning and polishing car windows; running errands; assisting drivers to find a parking place and ensuring car is not damaged during driver's absence; handing out leaflets and free newspapers; receiving immediate payment.

Occupations in this minor group are classified into the following unit groups:

9510 Street and related service workers

## **9510 Street and related service workers**

Street and related service workers provide a variety of services on streets and in other public places, including cleaning shoes, washing car windows, running errands, handing out leaflets, looking after property, and providing other on-the-spot street services.

Tasks include -

- (a) obtaining the materials necessary to perform services;
- (b) approaching people on the street to offer services;
- (c) cleaning and polishing shoes;
- (d) cleaning and polishing car windows;
- (e) running errands;
- (f) assisting drivers to find a parking place and ensuring car is not damaged during driver's absence;
- (g) handing out leaflets and free newspapers;
- (h) receiving immediate payment.

Examples of the occupations classified here:

- Errand boy
- Shoe-polisher
- Car window washer
- Car guard
- Leaflet distributor
- Free newspaper distributor

Some related occupations classified elsewhere:

- Leaflet and newspaper deliverer - 9621
- Forecourt attendant – 5245

**9 Elementary Occupations**

**95 Street and related sales and service workers**

**951 Street and related service workers**

Unit Group	Sub-unit Group	Description
<b>9510</b>		<b>Street and related service workers</b>
	95101	Polisher, shoe/Shiner,shoe
	95102	Errand boy
	95103	Billposter
	95104	Leaflet distributor/ Free newspaper distributor
	95105	Car window washer/ car guard

**952 Street vendors (excluding food)**

Street vendors (excluding food) sell a usually limited range of goods (excluding food for immediate consumption) in streets and public places such as stations, cinemas or theatres.

Tasks performed usually include:

Buying or receiving items for sale, or making simple items; loading and unloading basket, tray, push-cart, bicycle, hand truck or other vehicle, to transport goods to the streets or public places such as stations or cinemas; displaying goods or calling out to attract customer's attention; approaching potential customers on street and offering goods for sale; receiving immediate payment.

Occupations in this minor group are classified into the following unit groups:

9520 Street vendors (excluding food)

**9520 Street vendors (excluding food)**

Street vendors (excluding food) sell a usually limited range of goods (excluding food for immediate consumption) in streets and public places such as stations, cinemas or theatres.

Tasks include -

- buying or receiving items for sale, or making simple items;
- loading and unloading basket, tray, push-cart, bicycle, hand truck or other vehicle, to transport goods to the streets or public places such as stations or cinemas;
- displaying goods or calling out to attract customer's attention;
- approaching potential customers on street and offering goods for sale;
- receiving immediate payment.

Examples of the occupations classified here:

- Hawker
- Pedlar
- Newspaper vendor

Some related occupations classified elsewhere:

Market salesperson - 5211  
 Street stall salesperson - 5211  
 Street food vendor - 5212  
 Free newspaper distributor – 9510



## Notes

Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stalls of a variety of prepared meals and food items for immediate consumption are classified in unit group 5246, Food service counter attendants. Vendors in streets and public places of food and beverages for immediate consumption from pushcarts, trucks, trays or baskets are classified in unit group 5212, Street food salespersons. Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionery) from pushcarts, trucks, trays or baskets are classified in unit group 9520, Street vendors (excluding food).

## 9 Elementary Occupations

### 95 Street and related sales and service workers

#### 952 Street vendors (excluding food)

Unit Group	Sub-unit Group	Description
9520		Street vendors (excluding food)
	95201	Hawker/ Newsvendor/ Vendor (newspapers)/ Pedlar
	95202	Salesman (outside)/ Tinker
	95203	Vendor, street (non-food products)
	95204	Vendor ,Theatre programme/ stamp

### 96 Refuse workers and other elementary workers

Refuse workers and other elementary workers collect garbage from buildings, yards, streets and other public places or keep streets and other public places or perform odd jobs for private households or establishments.

Tasks include:

Collecting, loading and unloading garbage; sweeping streets, parks and other public places; chopping firewood; carrying water; beating dust out of carpets and performing other odd-job tasks.

Occupations in this sub-major group are classified into the following minor groups:

- 961 Refuse workers
- 962 Other elementary workers

#### 961 Refuse workers

Refuse workers collect, process and recycle garbage from buildings, yards, streets and other public places, or keep streets and other public places clean.

Tasks usually include: collecting, loading and unloading garbage; sweeping streets, parks and other public places; sorting and recycling garbage such as paper, glass, plastic or aluminium.

Occupations in this minor group are classified into the following unit groups:

- 9611 Garbage and recycling collectors
- 9612 Refuse sorters
- 9613 Sweepers and related labourers

## **9611 Garbage and recycling collectors**

Garbage collectors collect and remove rubbish and items for recycling from buildings, yards, streets and other places.

Tasks include -

- (a) collecting rubbish and recyclable materials and locating it into bins and garbage and recycling trucks;
- (b) riding on or in garbage and recycling trucks;
- (c) lifting garbage bins and emptying contents into trucks and larger containers;
- (d) unloading garbage and recycling trucks.

Examples of the occupations classified here:

- Collector, refuse
- Dustman
- Dustwoman

Some related occupations classified elsewhere:

- Garbage truck driver- 8332

## **9612 Refuse sorters**

Refuse sorters identify, collect and sort discarded items suitable for recycling at dump sites and recycling enterprises or in buildings, streets and other public places.

Tasks include -

- (a) searching through refuse and collecting items for recycling from dump sites, domestic, commercial and industrial premises or from public places such as streets;
- (b) sorting cardboard, paper, glass, plastic, aluminium or other recyclable materials by type;
- (c) placing recyclable items and materials in designated compartments and containers for storage or transportation;
- (d) identifying and setting aside items of furniture, equipment, machinery, or components that are suitable for repair or re-use;
- (e) transporting recyclable items by hand or using non-motorized vehicles
- (f) selling recyclable or reusable materials.

Examples of the occupations classified here:

- Recycling worker
- Scrap merchant
- Waste picker

Some related occupations classified elsewhere:

- Refuse collector - 9611
- Street sweeper – 9613

## **9613 Sweepers and related labourers**

Sweepers and related labourers sweep and clean streets, parks, airports, stations and other public places.

Tasks include -

- (a) sweeping streets, parks, airports, stations and similar public places;
- (b) shovelling snow;
- (c) beating dust out of carpets by using a carpet-beater;
- (d) cleaning rubbish, leaves and snow from driveways and grounds.

Examples of the occupations classified here:

- Sweeper, park
- Sweeper, street

- 9 Elementary Occupations**  
**96 Refuse workers and other elementary workers**  
**961 Refuse workers**

Unit Group	Sub-unit Group	Description
<b>9611</b>		<b>Garbage and recycling collectors</b>
	96111	Collector (garbage/ refuse/ recycling material)/ Dustman
	96112	Loader, garbage truck/Dealer, scrap/Labourer, recycling
<b>9612</b>		<b>Refuse sorters</b>
	96121	Refuse sorter/ Recycling worker/ Waste picker/ Scrap merchant
	96122	Merchant, scrap/Picker, recycling/Sorter, garbage/Sorter, recycling/Sorter, refuse
<b>9613</b>		<b>Sweepers and related labourers</b>
	96131	Sweeper / Khakrob/ Sweeper (park/street/yard)
	96132	Sweeper (sewerage cleaner)
	96133	Sweeper (factory machines)
	96134	Cleaner, park/ street
	96135	Scavenger

## **962 Other elementary workers**

Other elementary workers deliver and carry messages and packages, collect money and stock vending machines, read meters, collect water and firewood, collect and issue tickets for parking or events.

Tasks performed usually include-

Chopping wood, collecting water and firewood; delivering messages, packages and other items within or between establishments, or elsewhere; performing duties as a post-runner; issuing and collecting tickets and passes; calculating parking charges; filling storage areas of vending machines and collecting money from containers; reading electricity, gas or water meters and recording consumption.

Occupations in this minor group are classified into the following unit groups:

- 9621 Messengers, package deliverers and luggage porters
- 9622 Odd job persons
- 9623 Meter readers and vending-machine collectors
- 9624 Water and firewood collectors
- 9629 Elementary workers not elsewhere classified

### **9621 Messengers, package deliverers and luggage porters**

Messengers, package deliverers and luggage porters carry and deliver messages, packages and other items within an establishment or between establishments, to households and elsewhere, or carry luggage especially at hotels, stations and airports.

Tasks include -

- (a) delivering messages, packages and other items within an establishment or between establishments, or elsewhere;

- (b) performing the duties of a post-runner;
- (c) delivering various goods to and from enterprises, shops, households and other places;
- (d) carrying and delivering luggage at hotels, stations, airports, and elsewhere;
- (e) receiving and marking baggage by completing attaching claim checks;
- (f) planning and following the most efficient route;
- (g) sorting items to be delivered according to the delivery route.

Examples of the occupations classified here:

- Newspaper deliverer
- Messenger
- Luggage porter
- Post-runner

Some related occupations classified elsewhere:

- Mail carrier - 4412
- Postman/woman – 4412

## **9622 Odd job persons**

Odd job persons clean, paint and maintain buildings, grounds and facilities, and undertake simple repairs.

Tasks include -

- (a) repairing broken windows, screens, doors, fences, barbecues, picnic tables, shelves, cupboards and other items;
- (b) replacing defective items such as light bulbs;
- (c) repairing and painting interior and exterior surfaces such as walls, ceilings and fences;
- (d) adjusting doors and windows;
- (e) replacing tap washers;
- (f) putting up handrails and grab rails;
- (g) unloading coal or wood and putting it into cellars of private households or establishments.

Examples of the occupations classified here:

- Odd-job person
- Handyperson,
- Hotel useful

## **9623 Meter readers and vending-machine collectors**

Meter readers and vending-machine collectors stock vending machines and collect money from them or from parking meters and other coin-boxes, or read electricity, gas or water meters.

Tasks include -

- (a) filling storage areas of vending machines and collecting money from their containers;
- (b) collecting money from parking meters and similar coin-boxes;
- (c) reading electricity, gas or water meters and recording consumption;
- (d) keeping records of merchandise distributed and money collected;
- (e) proceeding along established routes to take readings of meter dials;
- (f) verifying readings in cases where consumption appears to be abnormal, and record possible reasons for fluctuations;
- (g) inspecting meters for unauthorized connections, defects, and damage such as broken seals.

Examples of the occupations classified here:

- Vending machine collector
- Meter reader

## **9624 Water and firewood collectors**

Water and firewood collectors collect water and firewood and transport them on foot or using hand or animal carts.

Tasks include -

- (a) cutting and collecting wood from forests for sale in market or as fuel or for own consumption;
- (b) visiting forests or fields to pick pieces of dried wood from ground and arranging them in heaps;
- (c) cutting decayed branches and trunks of trees using axe and hand -saw;
- (d) tying collected wood into small faggots and carrying them or transporting them on a cart to the market for sale or to village or household for use;
- (e) drawing water from wells, rivers or ponds etc. for domestic use;
- (f) collecting water in leather bags, buckets or other containers from taps, rivers, ponds or wells and delivering the water to work sites, the houses of clients or to own household for drinking, cleaning of drains or storage in tanks.

Examples of the occupations classified here:

- Firewood collector
- Water collector

## **9629 Elementary workers not elsewhere classified**

This unit group covers elementary workers not classified elsewhere in major group 9, Elementary workers. For instance, the group includes those who issue and collect parking or admission tickets, provide personal items to patrons or customers in cloak rooms and assist patrons at entertainment events.

In such cases tasks would include -

- (a) selling and collecting admission tickets and passes from patrons at entertainment events or collecting tags from patrons;
- (b) examining tickets or passes to verify authenticity, using criteria such as colour and date issued;
- (c) guiding patrons to exits or providing other instructions or assistance in case of emergency;
- (d) directing patrons to restroom, concession stands and telephones;
- (e) directing vehicle drivers to parking spaces;
- (f) patrolling parking areas in order to prevent vehicle damage and vehicle property thefts;
- (g) calculating parking charges, and collecting fees from customers;
- (h) assigning dressing room facilities, locker space, or clothing containers to patrons of athletic or bathing establishments.

Examples of the occupations classified here:

- Usher
- Parking attendant
- Fairground attendant
- Cloak room attendant
- Ticket collectors

Some related occupations classified elsewhere:

- Parking valet – 8322

**9 Elementary Occupations**  
**96 Refuse workers and other elementary workers**  
**962 Other elementary workers**

Unit Group	Sub-unit Group	Description
<b>9621</b>		<b>Messengers, package deliverers and luggage porters</b>
	96211	Attendant (telephone/ lift)/ Liftman/ Bellboy/Bell hop
	96212	Deliveryman / Deliverer (hand/ newspapers)
	96213	Messenger (postal/office)/ Post-runner
	96214	Porter, goods loading (railway and road vehicles)
	96215	Porter (luggage/ shunting/ hotel/ lobby)/ Carrier/ Palleydar (coolie)/ Caddie (golf)
	96216	Boy, messenger/Courier, on foot/Cellarman/Basta bardar/Bellgirl
	96217	Deliverer, leaflets/Deliverer, on foot
	96218	Girl, messenger/Messenger/Messenger, office/Messenger, on foot/Messenger, telegraph/Runner, messages
<b>9622</b>		<b>Odd job persons</b>
	96221	Odd-job person/ labourer (odd-jobbing)
	96222	Attendant( cellar: hotel cellar: restaurant)
	96223	Cellarhand, hotel/Cellarhand, restaurant/Cellarman, /Restaurant
	96224	Hand, cellar: hotel/ restaurant
	96225	Handyman/Handywoman/Handyperson
	96226	Useful, hotel
<b>9623</b>		<b>Meter readers and vending-machine collectors</b>
	96231	Reader, meter/ Inspector (meter)
	96232	Collector (coin machine/ vending machine / meter/ turnstile/ money/tokens)
	96233	Pyrometerman (blast furnace)
	96234	Collector,coin meter
	96235	Duty jugalie
<b>9624</b>		<b>Water and firewood collectors</b>
	96241	Firewood collector
	96242	Water collector/ Bhishti (water carrier)
<b>9629</b>		<b>Elementary workers not elsewhere classified</b>
	96291	Usher
	96292	Attendant (amusement park/ fairground/ fun-fair/ cloakroom/ lavatory/ rest-room/ parking lot)/ Parker
	96293	Custodian
	96294	Checker/ Collector, ticket (non- travel)
	96295	Attendant, car park/ theatre
	96296	Billsticker
	96297	Poster, bill/Sticker, bill

## Major Group 0

### Armed Forces Occupations

Armed forces occupations include all jobs held by members of the armed forces. Members of the armed forces are those personnel who are currently serving in the armed forces, including auxiliary services, whether on a voluntary or compulsory basis, and who are not free to accept civilian employment and are subject to military discipline. Included are regular members of the army, navy, air force and other military services, as well as conscripts enrolled for military training or other service for a specified period.

Occupations in this major group are classified into the following sub-major groups:

- 01 Commissioned armed forces officers
- 02 Non-commissioned armed forces officers
- 03 Armed forces occupations, other ranks

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

#### Notes

Many jobs performed by members of the armed forces are similar, in terms of the nature of the work performed, to civilian occupations such as medical doctors, radio operators, cooks, secretaries and heavy truck drivers. Conceptually, it may be appropriate therefore, to classify such jobs in the armed forces with similar civilian jobs. This approach is adopted in several national occupation classifications. Typically such classifications also identify a number of military specific occupational groups. In many countries, however, it is not possible to produce information about the nature of the work performed by members of the armed forces. In adapting ISCO-08 for national purposes countries may wish, therefore, to consider what approach best suits their circumstances and user needs. For purposes of international comparability, however, where data pertaining to members of the armed forces are reported and classified by occupation, they should be included where possible in ISCO-08 major group 0, Armed forces occupations.

### 01 Commissioned armed forces officers

Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes all members of the armed forces holding the rank of second lieutenant (or equivalent) or higher.

Occupations in this sub-major group are classified into the following minor group:

- 011 Commissioned armed forces officers

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

### 011 Commissioned armed forces officers

Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations

outside the armed forces. This group includes all members of the armed forces holding the rank of second lieutenant (or equivalent) or higher.

Occupations in this sub-major group are classified into the following unit group:

**0110 Commissioned armed forces officers**

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

**0110 Commissioned armed forces officers**

Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes all members of the armed forces holding the rank of second lieutenant (or equivalent) or higher.

Examples of the occupations classified here: Admiral

- Air commodore
- Air marshal
- Brigadier (army)
- Officer cadet (armed forces)
- Captain (air force)
- Captain (army)
- Group captain, (air force)
- Captain (navy)
- Colonel (army)
- Navy commander
- Wing commander
- Air commodore
- General (army)
- Squadron leader
- Lieutenant (army)
- Second lieutenant (army)
- Lieutenant, (army)
- Lieutenant, flight
- Major (army)
- Field marshal
- Midshipman
- Flying officer (military)
- Naval officer (military)
- Sublieutenant (navy)

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.



**0 Armed Forces Occupations**  
**01 Commissioned armed forces officers**  
**011 Commissioned armed forces officers**

Unit Group	Sub-unit Group	Description
<b>0110</b>		<b>Commissioned armed forces</b>
	01100	Admiral/Brigadier, army/Cadet, officer: armed forces/Captain, air force/Captain, army Captain, group: air force/Captain, navy/Colonel, army/Commander, navy/Commander, wing: air force/Commissioned officers (all forces)/Commodore, air/Commodore, navy/General, army/Leader, squadron: air force/Lieutenant colonel, army/Lieutenant commander, navy/Lieutenant general, army/Lieutenant, army/Lieutenant, flight: air force/Lieutenant, navy/Lieutenant, second: army/Major general, army/Major, army/Marshal, air/Marshal, air chief/Marshal, / field/Midshipman/Officer, air force/Officer, army/Officer, cadet: armed forces/Officer, flying: military/Officer, naval: military/Officer, pilot: air force/Officer, senior: defence forces/Soldier: / captain/Sublieutenant, navy/Vice-admiral/Vice-marshal, air

**02 Non-commissioned armed forces officers**

Non-commissioned armed forces officers enforce military discipline and supervise the activities of those employed in Armed forces occupations, other ranks, and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes members of the armed forces holding ranks such as sergeant, warrant officer and sergeant major.

Occupations in this sub-major group are classified into the following minor group:

**021 Non-commissioned armed forces officers**

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

**021 Non-commissioned armed forces officers**

Non-commissioned armed forces officers enforce military discipline and supervise the activities of those employed in Armed forces occupations, other ranks, and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes members of the armed forces holding ranks such as sergeant, warrant officer and sergeant major.

Occupations in this minor group are classified into the following unit group:

**-0210 Non-commissioned armed forces officers**

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

## **0210 Non-commissioned armed forces officers**

Non-commissioned armed forces officers enforce military discipline and supervise the activities of those employed in Armed forces occupations, other ranks, and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes members of the armed forces holding ranks such as sergeant, warrant officer and sergeant major.

Examples of the occupations classified here:

Boatswain (navy)  
Flight sergeant  
Sergeant (army)  
Sergeant major  
Warrant officer

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

## **0 Armed Forces Occupations**

### **02 Non-commissioned armed forces officers**

#### **021 Non-commissioned armed forces officers**

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>0210</b>		<b>Non-commissioned armed forces</b>
	02100	Coxswain, navy: chief petty officer/Coxswain, navy: warrant officer/Airman, air force: warrant officer/Airwoman, air force: warrant officer/Major, Sergeant/Non-Commissioned officers (all forces)/Officer, chief petty: navy/Officer, petty: navy/Officer, warrant/Sergeant, army/Sergeant, flight/Sergeant-major/Soldier, sergeant major/Soldier, warrant officer

## **03 Armed forces occupations, other ranks**

Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces.

Occupations in this sub-major group are classified into the following minor group:

#### **031 Armed forces occupations, other ranks**

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

#### **031 Armed forces occupations, other ranks**

Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces.

Occupations in this minor group are classified into the following unit group:

**0310 Armed forces occupations, other ranks**

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

**0310 Armed forces occupations, other ranks**

Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces.

Examples of the occupations classified here:

- Airman
- Bombardier
- Corporal (air force)
- Corporal (army)
- Coxswain (navy)
- Gunner
- Infantryman/woman
- Paratrooper
- Rifleman/woman
- Seaman (navy)

Excluded from this group are:

- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian services.

<b>0</b>	<b>Armed Forces Occupations</b>
<b>03</b>	<b>Armed forces occupations, other ranks</b>
<b>031</b>	<b>Armed forces occupations, other ranks</b>

<b>Unit Group</b>	<b>Sub-unit Group</b>	<b>Description</b>
<b>0310</b>		<b>Armed forces occupations, other ranks</b>
	03100	Coxswain, navy/Aircrew woman, navy/Aircrewman, navy/Airman, air force/Airwoman, air force/Bombardier/Commando, army/Corporal, air force/Corporal, army/Armed forces, other ranks /Crewman, armoured fighting vehicle/Crewman, armoured personnel carrier/Crewman, tank/Crewwoman, armoured fighting vehicle/Crewwoman, armoured personnel carrier/Crewwoman, tank/Infantryman, army/Infantrywoman, army/Mortarman, army/Mortarwoman, army/Number, gun: army/Number, missile: army/Paratrooper/Recruit, defence forces/Rifleman/Riflewoman/Sapper, army/Seaman, navy/Seawomen, navy/Serviceperson, defence forces/Soldier/Soldier, infantry/Soldier, recruit/ Submariner, navy/Trooper

## Part-3

Concordance Table: PSCO 2015 to PSCO 1994

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
<b>Managers</b>				
1111	Legislators	1110		Legislators
1112	Senior government officials	1120		Senior government officials
1113	Traditional chiefs and heads of villages	1130		Traditional chiefs and heads of villages
1114	Senior officials of special-interest organizations	1141		Senior officials of political-party organisations
		1142		Senior officials of employers', workers' and other economic-interest organisations
		1143		Senior officials of humanitarian and other special-interest organisations
1120	Managing directors and chief executives	1210		Directors and chief executives
1211	Finance managers	1231	"P" stands for part	Finance and administration department managers
		1317	p	General managers of business services
1212	Human resource managers	1232		Personnel and industrial relations department managers
		1317	p	General managers of business services
1213	Policy and planning managers	1229	p	Production and operations department managers not elsewhere classified
		1239		Other department managers not elsewhere classified
1219	Business services and administration managers not elsewhere classified	1227		Production and operations department managers in business services
		1228		Production and operations department managers in personal care, cleaning and related services
		1229	p	Production and operations department managers not elsewhere classified
		1231	p	Finance and administration department managers
		1317	p	General managers of business services
		1318		General managers in personal care, cleaning and related services
1221	Sales and marketing managers	1233		Sales and marketing department managers

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		1317	p	General managers of business services
1222	Advertising and public relations managers	1234		Advertising and public relations department managers
		1317	p	General managers of business services
1223	Research and development managers	1237		Research and development department managers
		1319	p	General managers not elsewhere classified
1311	Agricultural and forestry production managers	1221	p	Production and operations department managers in agriculture, hunting, forestry and fishing
1312	Aquaculture and fisheries production managers	1221	p	Production & operations department managers in agriculture, hunting, forestry & fishing
1321	Manufacturing managers	1222	p	Production and operations department managers in manufacturing
		1312	p	General managers in manufacturing
1322	Mining managers	1222	p	Production and operations department managers in manufacturing
		1312	p	General managers in manufacturing
1323	Construction managers	1223	p	Production and operations department managers in construction
		1313		General managers in construction
1324	Supply, distribution and related managers	1226	p	Production and operations department managers in transport, storage and communications
		1235		Supply and distribution department managers
		1316	p	General managers in transport, storage and communications
1330	Information and communications technology service managers	1226	p	Production and operations department managers in transport, storage and communications
		1236		Computing services department managers
		1316	p	General managers in transport, storage and communications
		1317	p	General managers of business services
1341	Child care services managers	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified
1342	Health services managers	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		2230	p	Nursing and midwifery professionals
1343	Aged care services managers	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified
		2230	p	Nursing and midwifery professionals
1344	Social welfare managers	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified
1345	Education managers	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified
1346	Financial and insurance services branch managers	1227		Production and operations department managers in business services
		1317	p	General managers of business services
1349	Professional services managers not elsewhere classified	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified
1411	Hotel managers	1225	p	Production and operations department managers in restaurants and hotels
		1315	p	General managers of restaurants and hotels
1412	Restaurant managers	1225	p	Production and operations department managers in restaurants and hotels
		1315	p	General managers of restaurants and hotels
1420	Retail and wholesale trade managers	1224		Production and operations department managers in wholesale and retail trade
		1314	p	General managers in wholesale and retail trade
1431	Sports, recreation and cultural centre managers	1319	p	General managers not elsewhere classified
1439	Services managers not elsewhere classified	1229	p	Production and operations department managers not elsewhere classified
		1319	p	General managers not elsewhere classified

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description

### Professionals

2111	Physicists and astronomers	2111		Physicists and astronomers
2112	Meteorologists	2112		Meteorologists
2113	Chemists	2113	p	Chemists
2114	Geologists and geophysicists	2114		Geologists and geophysicists
2120	Mathematicians, actuaries and statisticians	2121		Mathematicians and related professionals
		2122		Statisticians
2131	Biologists, botanists, zoologists and related professionals	2211	p	Biologists, botanists, zoologists and related professionals
		2212	p	Pharmacologists, pathologists and related professionals
2132	Farming, forestry and fisheries advisers	2213		Agronomists and related professionals
		3213		Farming and forestry advisers
2133	Environmental protection professionals	2211	p	Biologists, botanists, zoologists and related professionals
2141	Industrial and production engineers	2149	p	Architects, engineers and related professionals not elsewhere classified
2142	Civil engineers	2142		Civil engineers
2143	Environmental engineers	2149	p	Architects, engineers and related professionals not elsewhere classified
2144	Mechanical engineers	2145		Mechanical engineers
2145	Chemical engineers	2146		Chemical engineers
2146	Mining engineers, metallurgists and related professionals	2147		Mining engineers, metallurgists and related professionals
2149	Engineering professionals not elsewhere classified	2149	p	Architects, engineers and related professionals not elsewhere classified
2151	Electrical engineers	2143		Electrical engineers
2152	Electronics engineers	2144	p	Electronics and telecommunications engineers
2153	Telecommunications engineers	2144	p	Electronics and telecommunications engineers
2161	Building architects	2141	p	Architects, town and traffic planners
2162	Landscape architects	2141	p	Architects, town and traffic planners
2163	Product and garment designers	3471	p	Decorators and commercial designers
2164	Town and traffic planners	2141	p	Architects, town and traffic planners
2165	Cartographers and surveyors	2148		Cartographers and surveyors
2166	Graphic and multimedia designers	3471	p	Decorators and commercial designers
2211	Generalist medical practitioners	2221	p	Medical doctors
2212	Specialist medical practitioners	2212	p	Pharmacologists, pathologists and related professionals
		2221	p	Medical doctors
2221	Nursing professionals	2230	p	Nursing and midwifery professionals
2222	Midwifery professionals	2230	p	Nursing and midwifery professionals

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
2230	Traditional and complementary medicine professionals	3229	p	Modern health associate professionals (except nursing) not elsewhere classified
		3241	p	Traditional medicine practitioners
2240	Paramedical practitioners	3221	p	Medical assistants
2250	Veterinarians	2212	p	Pharmacologists, pathologists and related professionals
		2223		Veterinarians
2261	Dentists	2222		Dentists
2262	Pharmacists	2113	p	Chemists
		2224		Pharmacists
2263	Environmental and occupational health and hygiene professionals	2229	p	Health professionals (except nursing) not elsewhere classified
		2412	p	Personnel and careers professionals
		3152	p	Safety, health and quality inspectors
		3222	p	Sanitarians
2264	Physiotherapists	3226	p	Physiotherapists and related associate professionals
2265	Dieticians and nutritionists	3223		Dieticians and nutritionists
2266	Audiologists and speech therapists	3229	p	Modern health associate professionals (except nursing) not elsewhere classified
2267	Optometrists and ophthalmic opticians	3224	p	Optometrists and opticians
		3229	p	Modern health associate professionals (except nursing) not elsewhere classified
2269	Health professionals not elsewhere classified	2229	p	Health professionals (except nursing) not elsewhere classified
		3226	p	Physiotherapists and related associate professionals
		3229	p	Modern health associate professionals (except nursing) not elsewhere classified
2310	University and higher education teachers	2310	p	College, university and higher education teaching professionals
2320	Vocational education teachers	2310	p	College, university and higher education teaching professionals
		2320	p	Secondary education teaching professionals
2330	Secondary education teachers	2320	p	Secondary education teaching professionals
2341	Primary school teachers	2331		Primary education teaching professionals
		3310		Primary education teaching associate professionals
2342	Early childhood educators	2332		Pre-primary education teaching professionals
		3320		Pre-primary education teaching associate professionals
2351	Education methods specialists	2351		Education methods specialists



PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		2352		School inspectors
2352	Special needs teachers	2340		Special education teaching professionals
		3330		Special education teaching associate professionals
2353	Other language teachers	2359	p	Other teaching professionals not elsewhere classified
		3340	p	Other teaching associate professionals
2354	Other music teachers	2359	p	Other teaching professionals not elsewhere classified
2355	Other arts teachers	2359	p	Other teaching professionals not elsewhere classified
		3340	p	Other teaching associate professionals
2356	Information technology trainers	2359	p	Other teaching professionals not elsewhere classified
		3340	p	Other teaching associate professionals
2359	Teaching professionals not elsewhere classified	2359	p	Other teaching professionals not elsewhere classified
		3340	p	Other teaching associate professionals
2411	Accountants	2411	p	Accountants
2412	Financial and investment advisers	2411	p	Accountants
		2419	p	Business professionals not elsewhere classified
		3411	p	Securities and finance dealers and brokers
2413	Financial analysts	2419	p	Business professionals not elsewhere classified
2421	Management and organization analysts	2419	p	Business professionals not elsewhere classified
2422	Policy administration professionals	2419	p	Business professionals not elsewhere classified
2423	Personnel and careers professionals	2412	p	Personnel and careers professionals
2424	Training and staff development professionals	2412	p	Personnel and careers professionals
2431	Advertising and marketing professionals	2419	p	Business professionals not elsewhere classified
		2451	p	Authors, journalists and other writers
2432	Public relations professionals	2419	p	Business professionals not elsewhere classified
		2451	p	Authors, journalists and other writers
2433	Technical and medical sales professionals (excluding ICT)	3415	p	Technical and commercial sales representatives
2434	Information and communications technology sales professionals	3415	p	Technical and commercial sales representatives
2511	Systems analysts	2131	p	Computer systems designers and analysts
2512	Software developers	2131	p	Computer systems designers and analysts

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
2513	Web and multimedia developers	2131	p	Computer systems designers and analysts
		2132	p	Computer programmers
		2139	p	Computing professionals not elsewhere classified
2514	Applications programmers	2132	p	Computer programmers
2519	Software and applications developers and analysts not elsewhere classified	2131	p	Computer systems designers and analysts
		2132	p	Computer programmers
		2139	p	Computing professionals not elsewhere classified
2521	Database designers and administrators	2131	p	Computer systems designers and analysts
2522	Systems administrators	2131	p	Computer systems designers and analysts
2523	Computer network professionals	2131	p	Computer systems designers and analysts
2529	Database and network professionals not elsewhere classified	2139	p	Computing professionals not elsewhere classified
2611	Lawyers	2421		Lawyers
2612	Judges	2422		Judges
2619	Legal professionals not elsewhere classified	2429		Legal professionals not elsewhere classified
2621	Archivists and curators	2431		Archivists and curators
2622	Librarians and related information professionals	2432		Librarians and related information professionals
2631	Economists	2441		Economists
2632	Sociologists, anthropologists and related professionals	2442		Sociologists, anthropologists and related professionals
2633	Philosophers, historians and political scientists	2443		Philosophers, historians and political scientists
2634	Psychologists	2445		Psychologists
2635	Social work and counselling professionals	2446		Social work professionals
2636	Religious professionals	2460		Religious professionals
2641	Authors and related writers	2451	p	Authors, journalists and other writers
2642	Journalists	2451	p	Authors, journalists and other writers
		3472	p	Radio, television and other announcers
2643	Translators, interpreters and other linguists	2444		Philologists, translators and interpreters
2651	Visual artists	2452		Sculptors, painters and related artists
2652	Musicians, singers and composers	2453		Composers, musicians and singers
		3473	p	Street, night-club and related musicians, singers and dancers
2653	Dancers and choreographers	2454		Choreographers and dancers
		3473	p	Street, night-club and related musicians, singers and dancers

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
2654	Film, stage and related directors and producers	1229	p	Production and operations department managers not elsewhere classified
		2455	p	Film, stage and related actors and directors
2655	Actors	2455	p	Film, stage and related actors and directors
2656	Announcers on radio, television and other media	3472	p	Radio, television and other announcers
2659	Creative and performing artists not elsewhere classified	3474		Clowns, magicians, acrobats and related associate professionals

### Technicians and associate professionals

3111	Chemical and physical science technicians	3111		Chemical and physical science technicians
3112	Civil engineering technicians	3112		Civil engineering technicians
		3151	p	Building and fire inspectors
3113	Electrical engineering technicians	3113		Electrical engineering technicians
		3152	p	Safety, health and quality inspectors
3114	Electronics engineering technicians	3114	p	Electronics and telecommunications engineering technicians
		3152	p	Safety, health and quality inspectors
3115	Mechanical engineering technicians	3115		Mechanical engineering technicians
		3152	p	Safety, health and quality inspectors
3116	Chemical engineering technicians	3116		Chemical engineering technicians
3117	Mining and metallurgical technicians	3117		Mining and metallurgical technicians
		3152	p	Safety, health and quality inspectors
3118	Draughtspersons	3118		Draughtspersons
3119	Physical and engineering science technicians not elsewhere classified	3119		Physical and engineering science technicians not elsewhere classified
3121	Mining supervisors	7111	p	Miners and quarry workers
		8111	p	Mining-plant operators
3122	Manufacturing supervisors	8171	p	Automated-assembly-line operators
		8172	p	Industrial-robot operators
		8211	p	Machine-tool operators
		8221	p	Pharmaceutical- and toiletry-products machine operators
		8222	p	Ammunition- and explosive-products machine operators
		8223	p	Metal finishing-, plating- and coating-machine operators
		8224	p	Photographic-products machine operators
		8229	p	Chemical-products machine operators not elsewhere classified
		8231	p	Rubber-products machine operators
		8232	p	Plastic-products machine operators

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		8240	p	Wood-products machine operators
		8251	p	Printing-machine operators
		8252	p	Bookbinding-machine operators
		8253	p	Paper-products machine operators
		8261	p	Fibre-preparing-, spinning- and winding-machine operators
		8262	p	Weaving- and knitting-machine operators
		8263	p	Sewing-machine operators
		8264	p	Bleaching-, dyeing- and cleaning-machine operators
		8265	p	Fur- and leather-preparing-machine operators
		8266	p	Shoemaking- and related machine operators
		8269	p	Textile-, fur- and leather-products machine operators not elsewhere classified
		8271	p	Meat- and fish-processing-machine operators
		8272	p	Dairy-products machine operators
		8273	p	Grain- and spice-milling-machine operators
		8274	p	Baked-goods, cereal and chocolate-products machine operators
		8275	p	Fruit-, vegetable- and nut-processing-machine operators
		8276	p	Sugar production machine operators
		8277	p	Tea-, coffee-, and cocoa-processing-machine operators
		8278	p	Brewers-, wine and other beverage machine operators
		8279	p	Tobacco production machine operators
		8281	p	Mechanical-machinery assemblers
		8282	p	Electrical-equipment assemblers
		8283	p	Electronic-equipment assemblers
		8284	p	Metal-, rubber- and plastic-products assemblers
		8285	p	Wood and related products assemblers
		8286	p	Paperboard, textile and related products assemblers
		8290	p	Other machine operators and assemblers
3123	Construction supervisors	1223	p	Production and operations department managers in construction
		7129	p	Building frame and related trades workers not elsewhere classified
3131	Power production plant operators	8161		Power-production plant operators

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
3132	Incinerator and water treatment plant operators	8163		Incinerator, water-treatment and related plant operators
3133	Chemical processing plant controllers	8152	p	Chemical-heat-treating-plant operators
		8153	p	Chemical-filtering- and separating-equipment operators
		8154	p	Chemical-still and reactor operators (except petroleum and natural gas)
		8159	p	Chemical-processing-plant operators not elsewhere classified
3134	Petroleum and natural gas refining plant operators	8155	p	Petroleum- and natural-gas-refining-plant operators
3135	Metal production process controllers	8121	p	Ore and metal furnace operators
		8122	p	Metal melters, casters and rolling-mill operators
		8123	p	Metal-heat-treating-plant operators
		8124	p	Metal drawers and extruders
3139	Process control technicians not elsewhere classified	3123		Industrial robot controllers
		8142	p	Paper-pulp plant operators
		8143	p	Papermaking-plant operators
		8171	p	Automated-assembly-line operators
		8172	p	Industrial-robot operators
3141	Life science technicians (excluding medical)	3211	p	Life science technicians
3142	Agricultural technicians	3212	p	Agronomy and forestry technicians
3143	Forestry technicians	3212	p	Agronomy and forestry technicians
3151	Ships' engineers	3141		Ships' engineers
3152	Ships' deck officers and pilots	3142		Ships' deck officers and pilots
3153	Aircraft pilots and related associate professionals	3143		Aircraft pilots and related associate professionals
		3340	p	Other teaching associate professionals
3154	Air traffic controllers	3144		Air traffic controllers
3155	Air traffic safety electronics technicians	3145		Air traffic safety technicians
3211	Medical imaging and therapeutic equipment technicians	3133		Medical equipment operators
3212	Medical and pathology laboratory technicians	3211	p	Life science technicians
3213	Pharmaceutical technicians and assistants	3228		Pharmaceutical assistants
3214	Medical and dental prosthetic technicians	7311	p	Precision-instrument makers and repairers
3221	Nursing associate professionals	2230	p	Nursing and midwifery professionals
		3231		Nursing associate professionals
3222	Midwifery associate professionals	2230	p	Nursing and midwifery professionals
		3232		Midwifery associate professionals

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
3230	Traditional and complementary medicine associate professionals	3241	p	Traditional medicine practitioners
3240	Veterinary technicians and assistants	3227		Veterinary assistants
3251	Dental assistants and therapists	3225		Dental assistants
3252	Medical records and health information technicians	4143	p	Coding, proof-reading and related clerks
3253	Community health workers	3221	p	Medical assistants
3254	Dispensing opticians	3224	p	Optometrists and opticians
3255	Physiotherapy technicians and assistants	3226	p	Physiotherapists and related associate professionals
3256	Medical assistants	3221	p	Medical assistants
3257	Environmental and occupational health inspectors and associates	3152	p	Safety, health and quality inspectors
		3222	p	Sanitarians
3258	Ambulance workers	5132	p	Institution-based personal care workers
3259	Health associate professionals not elsewhere classified	3226	p	Physiotherapists and related associate professionals
		3229	p	Modern health associate professionals (except nursing) not elsewhere classified
3311	Securities and finance dealers and brokers	3411	p	Securities and finance dealers and brokers
3312	Credit and loans officers	3419	p	Finance and sales associate professionals not elsewhere classified
3313	Accounting associate professionals	3433		Bookkeepers
		3434	p	Statistical, mathematical and related associate professionals
3314	Statistical, mathematical and related associate professionals	3434	p	Statistical, mathematical and related associate professionals
3315	Valuers and loss assessors	3417	p	Appraisers, valuers and auctioneers
3321	Insurance representatives	3412		Insurance representatives
3322	Commercial sales representatives	3415	p	Technical and commercial sales representatives
3323	Buyers	3416		Buyers
3324	Trade brokers	3421		Trade brokers
3331	Clearing and forwarding agents	3422		Clearing and forwarding agents
3332	Conference and event planners	3439	p	Administrative associate professionals not elsewhere classified
3333	Employment agents and contractors	3423		Employment agents and labour contractors
3334	Real estate agents and property managers	3413		Estate agents
3339	Business services agents not elsewhere classified	2419	p	Business professionals not elsewhere classified
		3417	p	Appraisers, valuers and auctioneers
		3429	p	Business services agents and trade brokers not elsewhere classified
3341	Office supervisors	3431	p	Administrative secretaries and related associate professionals

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		4111	p	Stenographers and typists
		4112	p	Word-processor and related operators
		4114	p	Calculating-machine operators
		4115	p	Secretaries
		4121	p	Accounting and bookkeeping clerks
		4122	p	Statistical and finance clerks
		4131	p	Stock clerks
		4132	p	Production clerks
		4133	p	Transport clerks
		4141	p	Library and filing clerks
		4142	p	Mail carriers and sorting clerks
		4143	p	Coding, proof-reading and related clerks
		4144	p	Scribes and related workers
		4190	p	Other office clerks
		4222	p	Receptionists and information clerks
		4223	p	Telephone switchboard operators
3342	Legal secretaries	3431	p	Administrative secretaries and related associate professionals
		4115	p	Secretaries
3343	Administrative and executive secretaries	3431	p	Administrative secretaries and related associate professionals
		3439	p	Administrative associate professionals not elsewhere classified
3344	Medical secretaries	3431	p	Administrative secretaries and related associate professionals
		4115	p	Secretaries
3351	Customs and border inspectors	3441		Customs and border inspectors
3352	Government tax and excise officials	3442		Government tax and excise officials
3353	Government social benefits officials	3443		Government social benefits officials
3354	Government licensing officials	3444		Government licensing officials
3355	Police inspectors and detectives	3450	p	Police inspectors and detectives
3359	Regulatory government associate professionals not elsewhere classified	3151	p	Building and fire inspectors
		3439	p	Administrative associate professionals not elsewhere classified
		3449		Customs, tax and related government associate professionals not elsewhere classified
3411	Legal and related associate professionals	3432		Legal and related business associate professionals
		3450	p	Police inspectors and detectives
3412	Social work associate professionals	3460		Social work associate professionals
3413	Religious associate professionals	3242		Faith healers
		3480		Religious associate professionals

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
3421	Athletes and sports players	3475	p	Athletes, sportspersons and related associate professionals
3422	Sports coaches, instructors and officials	3475	p	Athletes, sportspersons and related associate professionals
3423	Fitness and recreation instructors and program leaders	3340	p	Other teaching associate professionals
		3475	p	Athletes, sportspersons and related associate professionals
3431	Photographers	3131	p	Photographers and image and sound recording equipment operators
3432	Interior designers and decorators	3471	p	Decorators and commercial designers
3433	Gallery, museum and library technicians	3439	p	Administrative associate professionals not elsewhere classified
		3471	p	Decorators and commercial designers
3434	Chefs	5122	p	Cooks
3435	Other artistic and cultural associate professionals	1229	p	Production and operations department managers not elsewhere classified
		3340	p	Other teaching associate professionals
		3471	p	Decorators and commercial designers
3511	Information and communications technology operations technicians	3122	p	Computer equipment operators
3512	Information and communications technology user support technicians	3121	p	Computer assistants
3513	Computer network and systems technicians	3121	p	Computer assistants
3514	Web technicians	3121	p	Computer assistants
		3122	p	Computer equipment operators
3521	Broadcasting and audio-visual technicians	3131	p	Photographers and image and sound recording equipment operators
		3132	p	Broadcasting and telecommunications equipment operators
3522	Telecommunications engineering technicians	3114	p	Electronics and telecommunications engineering technicians
		3132	p	Broadcasting and telecommunications equipment operators

### Clerical support workers

4110	General office clerks	4190	p	Other office clerks
4120	Secretaries (general)	4115	p	Secretaries
4131	Typists and word processing operators	4111	p	Stenographers and typists
		4112	p	Word-processor and related operators
4132	Data entry clerks	4113		Data entry operators
		4114	p	Calculating-machine operators
4211	Bank tellers and related clerks	4211	p	Cashiers and ticket clerks



PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		4212		Tellers and other counter clerks
4212	Bookmakers, croupiers and related gaming workers	4211	p	Cashiers and ticket clerks
		4213		Bookmakers and croupiers
4213	Pawnbrokers and money-lenders	4214		Pawnbrokers and money-lenders
4214	Debt-collectors and related workers	4215		Debt-collectors and related workers
4221	Travel consultants and clerks	3414		Travel consultants and organisers
		4221		Travel agency and related clerks
4222	Contact centre information clerks	4222	p	Receptionists and information clerks
4223	Telephone switchboard operators	4223	p	Telephone switchboard operators
4224	Hotel receptionists	4222	p	Receptionists and information clerks
4225	Enquiry clerks	4222	p	Receptionists and information clerks
4226	Receptionists (general)	4222	p	Receptionists and information clerks
4227	Survey and market research interviewers	4190	p	Other office clerks
4229	Client information workers not elsewhere classified	4222	p	Receptionists and information clerks
4311	Accounting and bookkeeping clerks	4121	p	Accounting and bookkeeping clerks
4312	Statistical, finance and insurance clerks	4122	p	Statistical and finance clerks
4313	Payroll clerks	4121	p	Accounting and bookkeeping clerks
4321	Stock clerks	4131	p	Stock clerks
4322	Production clerks	4132	p	Production clerks
4323	Transport clerks	4133	p	Transport clerks
4411	Library clerks	4141	p	Library and filing clerks
4412	Mail carriers and sorting clerks	4142	p	Mail carriers and sorting clerks
4413	Coding, proof-reading and related clerks	4143	p	Coding, proof-reading and related clerks
4414	Scribes and related workers	4144	p	Scribes and related workers
4415	Filing and copying clerks	4141	p	Library and filing clerks
4416	Personnel clerks	4190	p	Other office clerks
4419	Clerical support workers not elsewhere classified	4190	p	Other office clerks

### Service and sales workers

5111	Travel attendants and travel stewards	5111		Travel attendants and travel stewards
5112	Transport conductors	5112		Transport conductors
5113	Travel guides	5113		Travel guides
5120	Cooks	5122	p	Cooks
5131	Waiters	5123	p	Waiters, waitresses and bartenders
5132	Bartenders	5123	p	Waiters, waitresses and bartenders
5141	Hairdressers	5141	p	Hairdressers, barbers, beauticians and related workers
5142	Beauticians and related workers	5141	p	Hairdressers, barbers, beauticians and related workers

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
5151	Cleaning and housekeeping supervisors in offices, hotels and other establishments	5121	p	Housekeepers and related workers
5152	Domestic housekeepers	5121	p	Housekeepers and related workers
5153	Building caretakers	9141		Building caretakers
5161	Astrologers, fortune-tellers and related workers	5151		Astrologers and related workers
		5152		Fortune-tellers, palmists and related workers
5162	Companions and valets	5142		Companions and valets
5163	Undertakers and embalmers	5143		Undertakers and embalmers
5164	Pet groomers and animal care workers	5139	p	Personal care and related workers not elsewhere classified
		6129	p	Market-oriented animal producers and related workers not elsewhere classified
5165	Driving instructors	3340	p	Other teaching associate professionals
5169	Personal services workers not elsewhere classified	5149		Other personal services workers not elsewhere classified
5211	Stall and market salespersons	5230	p	Stall and market salespersons
5212	Street food salespersons	9111		Street food vendors
5221	Shopkeepers	1314	p	General managers in wholesale and retail trade
5222	Shop supervisors	5220	p	Shop salespersons and demonstrators
5223	Shop sales assistants	5220	p	Shop salespersons and demonstrators
5230	Cashiers and ticket clerks	4211	p	Cashiers and ticket clerks
5241	Fashion and other models	5210		Fashion and other models
5242	Sales demonstrators	5220	p	Shop salespersons and demonstrators
5243	Door to door salespersons	9113	p	Door-to-door and telephone salespersons
5244	Contact centre salespersons	9113	p	Door-to-door and telephone salespersons
5245	Service station attendants	5220	p	Shop salespersons and demonstrators
5246	Food service counter attendants	5220	p	Shop salespersons and demonstrators
		5230	p	Stall and market salespersons
5249	Sales workers not elsewhere classified	5220	p	Shop salespersons and demonstrators
5311	Child care workers	5131	p	Child-care workers
5312	Teachers' aides	5131	p	Child-care workers
5321	Health care assistants	5132	p	Institution-based personal care workers
5322	Home-based personal care workers	5133		Home-based personal care workers
5329	Personal care workers in health services not elsewhere classified	5132	p	Institution-based personal care workers
		5139	p	Personal care and related workers not elsewhere classified
5411	Fire fighters	5161		Fire-fighters
5412	Police officers	5162		Police officers

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
5413	Prison guards	5163		Prison guards
5414	Security guards	5169	p	Protective services workers not elsewhere classified
		9152	p	Doorkeepers, watchpersons and related workers
5419	Protective services workers not elsewhere classified	5169	p	Protective services workers not elsewhere classified

### Skilled agricultural, forestry and fishery workers

6111	Field crop and vegetable growers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6111		Field crop and vegetable growers
6112	Tree and shrub crop growers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6112		Tree and shrub crop growers
6113	Gardeners, horticultural and nursery growers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6113	p	Gardeners, horticultural and nursery growers
6114	Mixed crop growers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6114		Mixed-crop growers
6121	Livestock and dairy producers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6121		Dairy and livestock producers
		6124	p	Mixed-animal producers
6122	Poultry producers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6122		Poultry producers
		6124	p	Mixed-animal producers
6123	Apiarists and sericulturists	6123		Apiarists and sericulturists
		6124	p	Mixed-animal producers
6129	Animal producers not elsewhere classified	6129	p	Market-oriented animal producers and related workers not elsewhere classified
6130	Mixed crop and animal producers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6130		Market-oriented crop and animal producers
6210	Forestry and related workers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6141		Forestry workers and loggers
		6142		Charcoal burners and related workers
6221	Aquaculture workers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6151		Aquatic-life cultivation workers
6222	Inland and coastal waters fishery workers	1311	p	General managers in agriculture, hunting, forestry and fishing

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		6152	p	Inland and coastal waters fishery workers
6223	Deep-sea fishery workers	1311	p	General managers in agriculture, hunting, forestry and fishing
		6153		Deep-sea fishery workers
6224	Hunters and trappers	6154		Hunters and trappers
6310	Subsistence crop farmers	6210	p	Subsistence agricultural and fishery workers
6320	Subsistence livestock farmers	6210	p	Subsistence agricultural and fishery workers
6330	Subsistence mixed crop and livestock farmers	6210	p	Subsistence agricultural and fishery workers
6340	Subsistence fishers, hunters, trappers and gatherers	6210	p	Subsistence agricultural and fishery workers

### Craft and related trades workers

7111	House builders	7121		Builders, traditional materials
		7129	p	Building frame and related trades workers not elsewhere classified
7112	Bricklayers and related workers	7122	p	Bricklayers and stonemasons
7113	Stonemasons, stone cutters, splitters and carvers	7113		Stone splitters, cutters and carvers
		7122	p	Bricklayers and stonemasons
7114	Concrete placers, concrete finishers and related workers	7123		Concrete placers, concrete finishers and related workers
7115	Carpenters and joiners	7124		Carpenters and joiners
7119	Building frame and related trades workers not elsewhere classified	7129	p	Building frame and related trades workers not elsewhere classified
7121	Roofers	7131		Roofers
7122	Floor layers and tile setters	7132		Floor layers and tile setters
7123	Plasterers	7133		Plasterers
7124	Insulation workers	7134		Insulation workers
7125	Glaziers	7135		Glaziers
7126	Plumbers and pipe fitters	7136		Plumbers and pipe fitters
7127	Air conditioning and refrigeration mechanics	7233	p	Agricultural- or industrial-machinery mechanics and fitters
7131	Painters and related workers	7141		Painters and related workers
7132	Spray painters and varnishers	7142		Varnishers and related painters
7133	Building structure cleaners	7143	p	Building structure cleaners
7211	Metal moulders and coremakers	7211		Metal moulders and coremakers
7212	Welders and flamecutters	7212		Welders and flamecutters
7213	Sheet-metal workers	7213		Sheet-metal workers
7214	Structural-metal preparers and erectors	7214		Structural-metal preparers and erectors
7215	Riggers and cable splicers	7215		Riggers and cable splicers
7221	Blacksmiths, hammersmiths and forging press workers	7221		Blacksmiths, hammer-smiths and forging-press workers
7222	Toolmakers and related workers	7222		Tool-makers and related workers

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
7223	Metal working machine tool setters and operators	7223	p	Machine-tool setters and setter-operators
		8211	p	Machine-tool operators
7224	Metal polishers, wheel grinders and tool sharpeners	7224		Metal wheel-grinders, polishers and tool sharpeners
7231	Motor vehicle mechanics and repairers	7231	p	Motor vehicle mechanics and fitters
7232	Aircraft engine mechanics and repairers	7232		Aircraft engine mechanics and fitters
7233	Agricultural and industrial machinery mechanics and repairers	7233	p	Agricultural- or industrial-machinery mechanics and fitters
7234	Bicycle and related repairers	7231	p	Motor vehicle mechanics and fitters
7311	Precision-instrument makers and repairers	7311	p	Precision-instrument makers and repairers
7312	Musical instrument makers and tuners	7312		Musical instrument makers and tuners
7313	Jewellery and precious-metal workers	7313		Jewellery and precious-metal workers
7314	Potters and related workers	7321		Abrasive wheel formers, potters and related workers
7315	Glass makers, cutters, grinders and finishers	7322	p	Glass-makers, cutters, grinders and finishers
7316	Sign writers, decorative painters, engravers and etchers	7323		Glass engravers and etchers
		7324		Glass, ceramics and related decorative painters
7317	Handicraft workers in wood, basketry and related materials	7331	p	Handicraft workers in wood and related materials
		7424		Basketry weavers, brush makers and related workers
7318	Handicraft workers in textile, leather and related materials	7332		Handicraft workers in textile, leather and related materials
		7431		Fibre preparers
		7432	p	Weavers, knitters and related workers
7319	Handicraft workers not elsewhere classified	7331	p	Handicraft workers in wood and related materials
7321	Pre-press technicians	7341	p	Compositors, typesetters and related workers
		7342		Stereotypers and electrotypers
		7343		Printing engravers and etchers
7322	Printers	7341	p	Compositors, typesetters and related workers
		7346		Silk-screen, block and textile printers
		8251	p	Printing-machine operators
7323	Print finishing and binding workers	7345		Bookbinders and related workers
		8252	p	Bookbinding-machine operators
7411	Building and related electricians	7137		Building and related electricians
7412	Electrical mechanics and fitters	7241		Electrical mechanics and fitters
7413	Electrical line installers and repairers	7245	p	Electrical line installers, repairers and cable jointers
7421	Electronics mechanics and servicers	7242	p	Electronics fitters

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
		7243	p	Electronics mechanics and servicers
7422	Information and communications technology installers and servicers	7242	p	Electronics fitters
		7243	p	Electronics mechanics and servicers
		7244		Telegraph and telephone installers and servicers
		7245	p	Electrical line installers, repairers and cable jointers
7511	Butchers, fishmongers and related food preparers	7411		Butchers, fishmongers and related food preparers
7512	Bakers, pastry-cooks and confectionery makers	7412		Bakers, pastry-cooks and confectionery makers
7513	Dairy-products makers	7413		Dairy-products makers
7514	Fruit, vegetable and related preservers	7414		Fruit, vegetable and related preservers
7515	Food and beverage tasters and graders	7415		Food and beverage tasters and graders
7516	Tobacco preparers and tobacco products makers	7416		Tobacco preparers and tobacco products makers
7521	Wood treaters	7421		Wood treaters
7522	Cabinet-makers and related workers	7422		Cabinet-makers and related workers
7523	Woodworking-machine tool setters and operators	7423		Woodworking-machine setters and setter-operators
		8240	p	Wood-products machine operators
7531	Tailors, dressmakers, furriers and hatters	7433		Tailors, dressmakers and hatters
		7434		Furriers and related workers
7532	Garment and related pattern-makers and cutters	7435		Textile, leather and related pattern-makers and cutters
7533	Sewing, embroidery and related workers	7436		Sewers, embroiderers and related workers
7534	Upholsterers and related workers	7437		Upholsterers and related workers
7535	Pelt dressers, tanners and fellmongers	7441		Pelt dressers, tanners and fellmongers
7536	Shoemakers and related workers	7442		Shoe-makers and related workers
7541	Underwater divers	6152	p	Inland and coastal waters fishery workers
		7216		Underwater workers
7542	Shotfirers and blasters	7112		Shotfirers and blasters
7543	Product graders and testers (excluding foods and beverages)	3152	p	Safety, health and quality inspectors
7544	Fumigators and other pest and weed controllers	7143	p	Building structure cleaners
7549	Craft and related workers not elsewhere classified	7322	p	Glass-makers, cutters, grinders and finishers

### Plant and machine operators, and assemblers

8111	Miners and quarries	7111	p	Miners and quarry workers
		8111	p	Mining-plant operators
8112	Mineral and stone processing plant operators	8112		Mineral-ore- and stone-processing-plant operators

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
8113	Well drillers and borers and related workers	8113		Well drillers and borers and related workers
8114	Cement, stone and other mineral products machine operators	8212		Cement and other mineral products machine operators
8121	Metal processing plant operators	8121	p	Ore and metal furnace operators
		8122	p	Metal melters, casters and rolling-mill operators
		8123	p	Metal-heat-treating-plant operators
		8124	p	Metal drawers and extruders
8122	Metal finishing, plating and coating machine operators	8223	p	Metal finishing-, plating- and coating-machine operators
8131	Chemical products plant and machine operators	8151		Crushing-, grinding- and chemical-mixing machinery operators
		8152	p	Chemical-heat-treating-plant operators
		8153	p	Chemical-filtering- and separating-equipment operators
		8154	p	Chemical-still and reactor operators (except petroleum and natural gas)
		8155	p	Petroleum- and natural-gas-refining-plant operators
		8159	p	Chemical-processing-plant operators not elsewhere classified
		8221	p	Pharmaceutical- and toiletry-products machine operators
		8222	p	Ammunition- and explosive-products machine operators
		8229	p	Chemical-products machine operators not elsewhere classified
8132	Photographic products machine operators	7344		Photographic and related workers
		8224	p	Photographic-products machine operators
8141	Rubber products machine operators	8231	p	Rubber-products machine operators
8142	Plastic products machine operators	8232	p	Plastic-products machine operators
8143	Paper products machine operators	8253	p	Paper-products machine operators
8151	Fibre preparing, spinning and winding machine operators	8261	p	Fibre-preparing-, spinning- and winding-machine operators
8152	Weaving and knitting machine operators	7432	p	Weavers, knitters and related workers
		8262	p	Weaving- and knitting-machine operators
8153	Sewing machine operators	8263	p	Sewing-machine operators
8154	Bleaching, dyeing and fabric cleaning machine operators	8264	p	Bleaching-, dyeing- and cleaning-machine operators
8155	Fur and leather preparing machine operators	8265	p	Fur- and leather-preparing-machine operators
8156	Shoemaking and related machine operators	8266	p	Shoemaking- and related machine operators
8157	Laundry machine operators	8264	p	Bleaching-, dyeing- and cleaning-machine operators



PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
8159	Textile, fur and leather products machine operators not elsewhere classified	8269	p	Textile-, fur- and leather-products machine operators not elsewhere classified
8160	Food and related products machine operators	8271	p	Meat- and fish-processing-machine operators
		8272	p	Dairy-products machine operators
		8273	p	Grain- and spice-milling-machine operators
		8274	p	Baked-goods, cereal and chocolate-products machine operators
		8275	p	Fruit-, vegetable- and nut-processing-machine operators
		8276	p	Sugar production machine operators
		8277	p	Tea-, coffee-, and cocoa-processing-machine operators
		8278	p	Brewers-, wine and other beverage machine operators
		8279	p	Tobacco production machine operators
8171	Pulp and papermaking plant operators	8142	p	Paper-pulp plant operators
		8143	p	Papermaking-plant operators
8172	Wood processing plant operators	8141		Wood-processing-plant operators
8181	Glass and ceramics plant operators	8131		Glass and ceramics kiln and related machine operators
		8139		Glass, ceramics and related plant operators not elsewhere classified
8182	Steam engine and boiler operators	8162		Steam-engine and boiler operators
8183	Packing, bottling and labelling machine operators	8290	p	Other machine operators and assemblers
8189	Stationary plant and machine operators not elsewhere classified	8290	p	Other machine operators and assemblers
8211	Mechanical machinery assemblers	8281	p	Mechanical-machinery assemblers
8212	Electrical and electronic equipment assemblers	8282	p	Electrical-equipment assemblers
		8283	p	Electronic-equipment assemblers
8219	Assemblers not elsewhere classified	8284	p	Metal-, rubber- and plastic-products assemblers
		8285	p	Wood and related products assemblers
		8286	p	Paperboard, textile and related products assemblers
		8290	p	Other machine operators and assemblers
8311	Locomotive engine drivers	8311		Locomotive-engine drivers
8312	Railway brake, signal and switch operators	8312		Railway brakemen, signallers and shunters
8321	Motorcycle drivers	8321		Motor-cycle drivers
8322	Car, taxi and van drivers	8322		Car, taxi and van drivers
8331	Bus and tram drivers	8323		Bus and tram drivers
8332	Heavy truck and lorry drivers	8324		Heavy truck and lorry drivers



PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
8341	Mobile farm and forestry plant operators	8331		Motorised farm and forestry plant operators
8342	Earthmoving and related plant operators	8332		Earth-moving- and related plant operators
8343	Crane, hoist and related plant operators	8333		Crane, hoist and related plant operators
8344	Lifting truck operators	8334		Lifting-truck operators
8350	Ships' deck crews and related workers	8340		Ships' deck crews and related workers

### Elementary occupations

9111	Domestic cleaners and helpers	9131		Domestic helpers and cleaners
9112	Cleaners and helpers in offices, hotels and other establishments	9132	p	Helpers and cleaners in offices, hotels and other establishments
9121	Hand launderers and pressers	9133		Hand-launderers and pressers
9122	Vehicle cleaners	9142	p	Vehicle, window and related cleaners
9123	Window cleaners	9142	p	Vehicle, window and related cleaners
9129	Other cleaning workers	9142	p	Vehicle, window and related cleaners
9211	Crop farm labourers	9211	p	Farm-hands and labourers
9212	Livestock farm labourers	9211	p	Farm-hands and labourers
9213	Mixed crop and livestock farm labourers	9211	p	Farm-hands and labourers
9214	Garden and horticultural labourers	6113	p	Gardeners, horticultural and nursery growers
		9211	p	Farm-hands and labourers
9215	Forestry labourers	9212		Forestry labourers
9216	Fishery and aquaculture labourers	9213		Fishery, hunting and trapping labourers
9311	Mining and quarrying labourers	9311		Mining and quarrying labourers
9312	Civil engineering labourers	9312		Construction and maintenance labourers: roads, dams and similar constructions
9313	Building construction labourers	9313		Building construction labourers
9321	Hand packers	9322	p	Hand packers and other manufacturing labourers
9329	Manufacturing labourers not elsewhere classified	9321	p	Assembling labourers
		9322	p	Hand packers and other manufacturing labourers
9331	Hand and pedal vehicle drivers	9331		Hand or pedal vehicle drivers
9332	Drivers of animal-drawn vehicles and machinery	9332		Drivers of animal-drawn vehicles and machinery
9333	Freight handlers	9333	p	Freight handlers
9334	Shelf fillers	9333	p	Freight handlers
9411	Fast food preparers	5122	p	Cooks
9412	Kitchen helpers	9132	p	Helpers and cleaners in offices, hotels and other establishments
9510	Street and related service workers	9120		Shoe cleaning and other street services elementary occupations
9520	Street vendors (excluding food)	9112		Street vendors, non-food products

PSCO 2015		PSCO 1994		
Unit group	Description	Unit group	Part	Description
9611	Garbage and recycling collectors	9161	p	Garbage collectors
9612	Refuse sorters	9161	p	Garbage collectors
		9321	p	Assembling labourers
9613	Sweepers and related labourers	9162	p	Sweepers and related labourers
9621	Messengers, package deliverers and luggage porters	9151		Messengers, package and luggage porters and deliverers
		9152	p	Doorkeepers, watchpersons and related workers
9622	Odd job persons	9162	p	Sweepers and related labourers
9623	Meter readers and vending-machine collectors	9153		Vending-machine money collectors, meter readers and related workers
9624	Water and firewood collectors	9162	p	Sweepers and related labourers
9629	Elementary workers not elsewhere classified	9152	p	Doorkeepers, watchpersons and related workers

### Armed forces occupations

0110	Commissioned armed forces officers	0110	p	Armed forces
0210	Non-commissioned armed forces officers	0110	p	Armed forces

## Part-4: Occupational Titles in Alphabetical order

**2015 1994**

### A

26365	24600	Abdess
26365	24600	Abbot
13452	12290	Academic, university: head of department or faculty
34333	34390	Accessioner, library
26528	24530	Accompanist
24311	24192	Accountant (executive), advertising
24111	24110	Accountant (professional)
24112	24110	Accountant, auditing
24113	24110	Accountant, budget
11121	11201	Accountant, general (government official)
24118	24110	Accountant, management
24118	24110	Accountant, other
73167	73243	Acid polisher (glass decorating)
31177	31172	Acidiser,oil and gas well
26591	34740	Acrobat
26551	24551	Actor/actress (any specialism)
21204	21212	Actuary
22304	32290	Acupuncturist
33151	34170	Adjuster, claims (insurance)
73115	73110	Adjuster, precision instrument
73115	73110	Adjuster, watch
13421	12310	Administrator (assistant), hospital
11143	11421	Administrator, chamber of commerce
11126	11200	Administrator, city
25221	21310	Administrator, computer: systems administration
33324	34390	Administrator, conference

**2015 1994**

11126	11200	Administrator, government
13425	13190	Administrator, health facility
13425	13190	Administrator, hospital
11126	11200	Administrator, intergovernmental organization
13425	13190	Administrator, medical
25221	21310	Administrator, network
33418	34390	Administrator, office
25116	21310	Administrator, SAP: business analysis
25221	21310	Administrator, systems: computers
11143	11421	Administrator, trade or professional organization
25221	21310	Administrator, unix
25221	21310	Administrator, WAN
35143	31210	Administrator, website
01100	01100	Admiral
22401	32210	Advanced care paramedic
33223	34152	Adviser (after-sales service/technical service)
11129	11281	Adviser (chief/ deputy), engineering (government official)
11124	11231	Adviser (joint), educational (government official)
23518	23510	Adviser, academic
24231	24120	Adviser, careers (professional)/ occupational
24125	24190	Adviser, debt
11128	11273	Adviser, economic (government official)
26314	24410	Adviser, economic policy
23517	23510	Adviser, education
23511	23510	Adviser, education (professional)
23517	23510	Adviser, education: methods
22636	32220	Adviser, environmental health

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21321	32130	Adviser, grower's	72324	72320	Aeromechanic
24236	24120	Adviser, human resources	62105	61410	Afforestation worker(market)
24236	24120	Adviser, industrial relations	33221	34150	Agent
24236	24120	Adviser, labour relations	33311	34220	Agent (clearing/shipping)
11126	11253	Adviser, legal (government official)	33341	34130	Agent (estate/house/property)
26191	24290	Adviser, legal (professional)	33211	34120	Agent (group insurance/insurance)
26113	24290	Adviser, legislative	34111	34503	Agent (inquiry)
22636	31520	Adviser, occupational health and safety	33392	34290	Agent (literary/musical performance/ sports/theatrical)
22636	31520	Adviser, occupational hygiene	11141	11410	Agent (political)
24125	24190	Adviser, pensions	33231	34160	Agent (procurement/purchasing)
24223	24190	Adviser, political	54121	51620	Agent (traffic)
24223	24190	Adviser, public policy	24315	24194	Agent ,patent
22636	32220	Adviser, radiation protection	52213	13144	Agent(working) (import-export)
23593	23590	Adviser, student	42213	42210	Agent, booking: travel
24125	24190	Adviser, superannuation	42213	42210	Agent, check-in
24118	24110	Adviser, taxation	33391	34171	Agent, commission (commodity auctions)
23512	23510	Adviser, teaching methods (professional)	42223	42220	Agent, directory assistance
42213	42210	Adviser, travel	33331	34230	Agent, employment
24125	24190	Adviser, wealth management	21327	32130	Agent, field service: agriculture
24236	24120	Adviser, workplace relations	33553	34503	Agent, inquiry (police)
21323	32130	Advisor, (agricultural)	52234	52200	Agent, leasing: vehicle
21326	22131	Advisor, farming (professional)	24335	34151	Agent, manufacturer's
21321	22130	Advisor, forestry (professional)	33394	24190	Agent, patent
26111	24210	Advocate	24321	24190	Agent, publicity
26111	24210	Advocate general	33344	34130	Agent, rental: apartment
26591	34740	Aerialist	33344	34130	Agent, rental: housing
34213	34750	Aerialist, sport	24331	34150	Agent, sales (engineering/technical)
21111	21111	Aerodynamicist	24346	34150	Agent, sales: communications (technology)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
24346	34150	Agent, sales: computer (systems)	03100	01100	Aircrew man, navy
24346	34150	Agent, sales: information technology	03100	01100	Aircrew woman, navy
24336	34150	Agent, sales: medical	03100	01100	Airman, air force
35123	31210	Agent, technical support: information technology	02100	01100	Airman, air force: warrant officer
42213	42210	Agent, ticket: airline	03100	01100	Airwoman, air force
52304	42110	Agent, ticket: entertainment and sporting events	02100	01100	Airwoman, air force: warrant officer
42213	42210	Agent, ticket: travel	26361	24600	Allama
42213	13190	Agent, travel	22125	22210	Allergist, clinical
72339	72330	Agricultural and industrial machinery mechanics and repairers n.e.c	26351	24460	Almoner (professional)
21327	22130	Agriculturist	34121	34600	Almoner, associate professional
21327	22130	Agrologist	11125	11241	Ambassador
21323	22130	Agronomist	22121	22210	Anaesthesiologist
91211	91330	Aid, (laundry/ linen)	22218	22300	Anaesthetist, nurse
53212	51330	Aid, midwife	24228	24190	Analyst ,strategy
53292	51390	Aid, pharmacy	21492	21491	Analyst, (communications/ systems, except computers)
53213	51320	Aid, psychiatric	21339	22110	Analyst, air pollution
53291	51320	Aid/Attendant (dental)	35123	31210	Analyst, application support
53224	51330	Aide, home care	25116	21310	Analyst, business: systems design
53214	51320	Aide, nursing: clinic	25193	21310	Analyst, business: testing software
53123	51310	Aide, pre-school	24325	24190	Analyst, communications: except computers
53296	51390	Aide, sterilization	25116	21310	Analyst, computer: business analysis
53123	51310	Aide, teacher's	35123	31210	Analyst, computer: helpdesk
32554	32260	Aide, therapist: physiotherapy	35123	31210	Analyst, computer: software support
32554	32260	Aide, therapy: physiotherapy	25193	21310	Analyst, computer: testing software
21334	22110	Air pollution analyst	24214	24190	Analyst, cost
21432	21490	Air pollution control engineer	33124	34190	Analyst, credit: assessing credit or loans
72323	72320	Aircraft restorer	25296	21390	Analyst, data mining

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
35123	31210	Analyst, desktop: support	35123	31210	Analyst, software: support
21436	21490	Analyst, environmental	25193	21310	Analyst, software: testing
33124	34190	Analyst, financial: assessing credit worthiness of clients	25116	21310	Analyst, systems: computers
24135	24190	Analyst, financial: investments	24223	24190	Analyst, treasury: government policy
35123	31210	Analyst, helpdesk	21339	22110	Analyst, water quality
25116	21310	Analyst, information systems	21314	22122	Anatomist
25222	21310	Analyst, infrastructure: systems administration	22121	22210	Anesthetists
24223	24190	Analyst, intelligence	25136	21310	Animation programmer
24135	24190	Analyst, investment	21664	34710	Animator
35123	31210	Analyst, IT helpdesk	81217	81232	Annealer (wire drawing)
24236	24120	Analyst, job	26561	34720	Announcer, news (radio/Television/sports/weather )
21339	22110	Analyst, land degradation	81225	82232	Anodiser
33124	34190	Analyst, loans	26322	24421	Anthropologist
24214	24190	Analyst, management	61231	61230	Apiarist(market)
24312	24192	Analyst, market research	25141	21320	Applications programmer
32524	41430	Analyst, medical records	75223	74227	Applier, veneer
24236	24120	Analyst, occupational	33152	34170	Appraiser
21204	21211	Analyst, operations research	33511	34410	Appraiser (principal)
35123	31210	Analyst, PC support	33153	34170	Appraiser, real estate
26343	24450	Analyst, psychological	13122	12210	Aquaculture production manager
33124	34190	Analyst, risk: assessing credit worthiness of clients	24236	24120	Arbitrator, industrial relations
25116	21310	Analyst, SAP	61125	22130	Arboriculturist (market)
21643	21412	Analyst, schedule (air transport)	26323	24422	Archaeologist
24135	24190	Analyst, securities	26364	24600	Archbishop
25294	21390	Analyst, security: computer	26365	24600	Archdeacon
25294	21390	Analyst, security: data	21448	21453	Architect (marine/naval )
25294	21390	Analyst, security: ICT	21612	21410	Architect, industrial building
24223	24190	Analyst, security: policy			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21613	21410	Architect, institutional building	21668	34710	Artist, digital
21614	21410	Architect, recreational building	51425	51410	Artist, make-up
25116	21310	Architect, business solutions	73218	73431	Artist, stipple (lithographic)/
25116	21310	Architect, business: business analysis	26535	34740	Artist, strip-tease
21611	21410	Architect, commercial building	34357	34740	Artist, stunt
21491	21490	Architect, consulting	21461	21470	Assayer. metallurgist
25116	21310	Architect, information: business analysis	82192	82861	Assembler leather products
21616	21410	Architect, interior	82192	82862	Assembler paperboard)
21621	21410	Architect, landscape	82122	82831	Assembler ( hearing aid/ radio/television
13494	13190	Archive Manager	82121	82820	Assembler (battery/ electrical components/equipment)
26211	24310	Archivist	82125	83830	Assembler (chronometer/clock/watch)
03100	01100	Armed forces, other ranks	62102	61410	Assembler (raft) (market)
72225	72222	Armourer	82194	82843	Assembler Gluer, plastic products
26521	24530	Arranger	82125	83831	Assembler( audio-visual equipment)
26531	24540	Arranger, ballet	82192	82860	Assembler( textile products
75494	52200	Arranger, flower	72341	72312	Assembler((bicycle/ pedal cycle/ wheelchair)
26526	24530	Arranger, music	82122	82833	Assembler(electronic components/computer)
43212	41311	Arranger, store / stock-control (inventory /records)/ warehouse/ supply	82122	82833	Assembler(electronic instruments/ microelectronics equipment)
13491	13190	Art gallery manager	82122	82832	Assembler(office machinery)
71152	71240	Artificer	82117	82810	Assembler, (agricultural machinery/ turbine)
72225	72222	Artificer, ordinance(firearms)	82112	82810	Assembler, (aircraft /airframe/marine)
26551	24551	Artist (dramatic)	82195	82900	Assembler, ammunition
26512	24521	Artist (graphic/ layout/ paintings/ poster/ creative/ landscape/ commercial/ fashion creation)	82126	82820	Assembler, armature
26591	34740	Artist (high-wire/ tight-rope/ trapeze )	82195	82840	Assembler, bicycle
26515	24520	Artist, ceramic	82195	82860	Assembler, cardboard products
21668	34710	Artist, commercial	82195	82900	Assembler, door

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
82126	82830	Assembler, electromechanical equipment	82116	82810	Assembler, turbine
82111	82810	Assembler, engine (internal combustion, except aircraft and marine engines)	82118	82810	Assembler, woodworking
82116	82810	Assembler, engine(steam)/ vehicle/ machine-tool)	33151	34170	Assessor ,claims (insurance)
82195	82840	Assembler, eyeglass frame	33125	34190	Assessor, credit
82191	82850	Assembler, furniture (sheet-metal/ wood and related materials)	33125	34190	Assessor, loans
82116	82810	Assembler, gearbox	24247	24120	Assessor, training
82126	82830	Assembler, hearing aid	24118	24110	Assignee, bankruptcy
82195	82840	Assembler, jewellery	24118	24110	Assignee, insolvency
82195	82840	Assembler, knife	52233	52201	Assistant ( shop/store)
82195	82860	Assembler, leather products	34112	34320	Assistant (barrister's/legal/solicitor's
82113	82810	Assembler, machinery (earth-moving/ industrial/mechanical)	32561	32210	Assistant (health/medical/occupational therapy)
82117	82810	Assembler, machinery (mining/ printing/ textile )	32401	32270	Assistant (livestock/veterinary)
82126	82830	Assembler, microelectronics equipment	33142	34341	Assistant (statistical /mathematical /actuarial)
82195	82860	Assembler, paperboard products	31423	22130	Assistant , agriculture
82195	82840	Assembler, pen and pencil	35132	31210	Assistant , communications: ICT
82195	82840	Assembler, plastic toy	32402	32270	Assistant veterinary (research/ artificial insemination)
81725	81410	Assembler, plywood panel	33521	34420	Assistant(tax)
82126	82830	Assembler, precision instrument	33132	34342	Assistant, accounting
71198	71290	Assembler, prefabricated building	33437	34310	Assistant, administrative
71198	71290	Assembler, prefabricated houses	33442	41150	Assistant, administrative: doctors surgery
82192	82901	Assembler, products (plastic/ metal/ composite/ tools/ wood /rubber)	33423	34310	Assistant, administrative: legal
82116	82810	Assembler, steam engine	33442	41150	Assistant, administrative: medical office
82195	82860	Assembler, sun-blinds	32555	32260	Assistant, allied health: physiotherapy
82126	82830	Assembler, telephone	21615	21410	Assistant, architectural
82195	82840	Assembler, thermos bottle	42112	34320	Assistant, bank
			53214	51320	Assistant, birth: clinic or hospital
			53224	51330	Assistant, birth: home



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93135	93130	Assistant, bricklayer's	92144	92110	Assistant, gardener's
43125	34320	Assistant, broker's	92144	92110	Assistant, greenkeeper's
93341	93330	Assistant, cabinet: supermarket (filling shelf, fridge or freezer)	93342	93330	Assistant, grocery: filling shelf, fridge or freezer
42223	42220	Assistant, call centre	53224	51330	Assistant, homecare: aged or disabled
93135	93130	Assistant, carpenter's	92144	92110	Assistant, horticultural nursery
22406	32210	Assistant, clinical: diagnosing and treating patients	44164	41900	Assistant, human resource
32564	32210	Assistant, clinical: helping doctor	32555	32260	Assistant, hydrotherapy
35132	31210	Assistant, computer: communications	32511	32250	Assistant, hygienist (dental/oral)
31147	31210	Assistant, computer: engineering (hardware)	43125	34320	Assistant, insurance: adjustment
35113	31220	Assistant, computer: engineering (operations)	43125	34320	Assistant, insurance: claims
35121	31210	Assistant, computer: engineering (software support)	43125	34320	Assistant, insurance: policy
35132	31210	Assistant, computer: network	31111	31110	Assistant, laboratory (chemical/educational institutes/medical)
35121	31210	Assistant, computer: programming	31173	31171	Assistant, laboratory (metallurgical)
35132	31210	Assistant, computer: systems design	33423	34310	Assistant, legal: secretarial tasks
35121	31210	Assistant, computer: user services	53296	51320	Assistant, medical imaging
33433	34312	Assistant, correspondence	22406	32210	Assistant, medical: diagnosing and treating patients
34333	34710	Assistant, curatorial	32535	32210	Assistant, medical: family planning
53224	51330	Assistant, day care: aged or disabled	93342	93330	Assistant, merchandise: filling shelf, fridge or freezer
53113	51310	Assistant, day care: children	53214	51320	Assistant, midwifery: clinic or hospital
32513	32250	Assistant, dental: school service	35214	31312	Assistant, motion picture
32564	32210	Assistant, doctor's	93342	93330	Assistant, nightfill
26421	24510	Assistant, editorial	32564	32210	Assistant, ophthalmic
93341	93330	Assistant, evening fill	53214	51320	Assistant, patient care
33437	34310	Assistant, executive	32131	32280	Assistant, pharmaceutical
33423	34310	Assistant, executive: legal	32135	32280	Assistant, pharmacy: dispensing
43211	41310	Assistant, field (air cargo)	52234	52200	Assistant, pharmacy: sales
44153	41411	Assistant, filing			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
32555	32260	Assistant, physiotherapy	21318	22110	Associate, research: medical
73211	73410	Assistant, planning (printing)	51611	51510	Astrologer
35211	31310	Assistant, production: media	31537	31430	Astronaut
35121	31210	Assistant, programming: ICT	21111	21110	Astronomer
75433	31526	Assistant, quality assurance	21111	21111	Astrophysicist
23104	23100	Assistant, research (audio visual)	34211	34750	Athlete
53224	51330	Assistant, residential care: aged or disabled	26113	24290	Attaché, legal
53224	51330	Assistant, respite care	75361	74420	Attacher,.heel /welt and sole(shoes)
52491	52200	Assistant, sales: car hire	96292	91524	Attendant (amusement park/ fairground)
52304	42110	Assistant, sales: checkout	83436	83337	Attendant (dry dock)
93342	93330	Assistant, sales: filling shelf, fridge or freezer	51631	51430	Attendant (funeral / undertaker's)
52114	52300	Assistant, sales: market stall	81124	81121	Attendant (hammer mill and belt conveyor)
93342	93330	Assistant, sales: nightfill	53221	51330	Attendant (home)
52491	52200	Assistant, sales: rental	53211	51322	Attendant (hospital/clinic)
52114	52300	Assistant, sales: street stall	91123	91322	Attendant (laboratory)
93342	93330	Assistant, sales: supermarket (stock control)	93296	93224	Attendant (oil tank/ water softener tank)
33442	41150	Assistant, secretarial: doctors surgery	52451	52203	Attendant (petrol pump/CNG station)
33442	41150	Assistant, secretarial: medical	53121	51311	Attendant (schoolchildren)
52304	42110	Assistant, shop: checkout	52233	52201	Attendant (shop/store)
32598	32290	Assistant, speech therapy	96211	91510	Attendant (telephone/ lift)
42274	41900	Assistant, survey: interviewing	51314	51234	Attendant ,canteen/ restaurant
72117	72111	Assistant, tapper(metal casting)	32581	51321	Attendant ambulance
53124	51310	Assistant, teacher's	96292	91525	Attendant( fun-fair/ cloakroom/ lavatory/ rest-room/ parking lot)
32555	32260	Assistant, technical: physiotherapy	51514	51211	Attendant, (hostel/resthouse)
32555	32260	Assistant, therapy: physiotherapy	51641	51391	Attendant, Aid(veterinary clinic)
42211	42210	Assistant, tourist information	51112	51111	Attendant, airport/ flight/ ship's cabin
93298	93211	Assistant, workshop	42213	51110	Attendant, airport: check-in
21318	22110	Associate, research: clinical			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93337	93330	Attendant, airport: handling baggage	32214	32311	Attendant, mental hospital
53293	51390	Attendant, ambulance	53215	51320	Attendant, midwifery: clinic or hospital
51644	61290	Attendant, animal	53225	51330	Attendant, midwifery: home birth
51322	51230	Attendant, bar: drinks service	53215	51320	Attendant, nursing: except home
52462	52200	Attendant, bar: food service	53225	51330	Attendant, nursing: home
53215	51320	Attendant, birth: clinic or hospital	94123	91320	Attendant, pantry
81511	82610	Attendant, breaker (jute)	54197	51690	Attendant, pool
52462	52200	Attendant, canteen: food service	51424	51414	Attendant, pool/bath/sauna/salon
96295	91520	Attendant, car park	51123	51120	Attendant, pullman car
96222	91510	Attendant, cellar: hotel	52462	52200	Attendant, salad bar
96222	91510	Attendant, cellar: restaurant	83423	83321	Attendant, sand stowing hopper
42213	51110	Attendant, check-in: airline	52452	52203	Attendant, service station (automobiles)
52304	42110	Attendant, checkout	52304	42110	Attendant, service station: cashier
31173	31171	Attendant, core house	52304	42110	Attendant, service station: console
52462	52200	Attendant, counter: food service	51123	51120	Attendant, sleeping car
81811	81311	Attendant, dipping –machine (ceramics decorating)	51425	51410	Attendant, spa
52453	52200	Attendant, driveway	54197	51690	Attendant, swimming pool
83434	83336	Attendant, elevator	42231	42230	Attendant, switch board
53297	51320	Attendant, first aid	96295	91520	Attendant, theatre
52304	42110	Attendant, gas station: cashier	43215	41310	Attendant, tool crib
51425	51410	Attendant, hot-room	51425	51410	Attendant, turkish bath
51644	61290	Attendant, kennel	53297	51320	Attendant, ward
51644	61290	Attendant, laboratory: animal	26111	24210	Attorney (professional)
81811	81310	Attendant, lehr	11126	11250	Attorney, general (government official)
52454	52200	Attendant, marina	26193	24292	Attorney, insurance claims
31331	81520	Attendant, mechanical stirrer and steam jacketed pan (chemical heat treating)	26198	24292	Attorney, insurance claims
			22661	32290	Audiologist

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22654	32290	Audiometrist	34114	34320	Bailiff/ Bailiff (water)
24117	24111	Auditor (professional)	75121	74120	Baker (bread/ general)
21339	22110	Auditor, environmental	75121	74121	Baker, biscuit/ pastry)
25294	21390	Auditor, information technology	72314	72311	Balancer(tyre)
33133	34340	Auditor, night: hotel	73115	73110	Balancer, scale
26411	24510	Author	93211	93220	Bale man
21668	34710	Author, dvd	83122	83122	Ballast man (railway)
21668	34710	Author, html	26533	24541	Ballerina
21668	34710	Author, internet content	21113	21113	Ballistician
21668	34710	Author, multimedia	31535	31433	Balloonist
26411	24510	Author, technical	26522	24531	Band leader
21668	34710	Author, web	93212	93220	Bandagepacker
21668	34710	Author, website	81522	82620	Bander (textile)
71256	71350	Autoglazier	73165	73240	Bander, (ceramics decorating)
32511	32250	Auxiliary, hygienist) (dental/ oral)	26522	24531	Bandmaster
92152	92120	Axeman	12118	12310	Banker
53111	51310	Ayah	12118	12310	Banker
51534	91411	Ayah, waiting room	83434	83336	Banks man, mine
<b>B</b>			51411	51410	Barber
53113	51310	Babysitter	83501	83400	Bargeman
71265	71362	Back-up man	51322	51230	Barista
21318	22110	Bacteriologist	26526	24530	Baritone
21313	22110	Bacteriologist (medical/ pharmaceutical/ soil/ other)	54147	91523	Barkandaz
75366	74422	Bag maker (leather)	51323	51230	Barkeeper
81411	82310	Bagger (assistant) (rubber product ion)	51323	51230	Barmaid
93211	93220	Bagger, hand	51321	51233	Barman
92141	61130	Baildar/ Nursery	26111	24210	Barrister
81516	82612	Ball ( thread and yarn)	51321	51233	Bartender
			26523	24532	Bassoonist

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
96216	91515	Basta bardar	21315	22110	Biologist (any specialism)
92161	92130	Beachcomber	21318	22110	Biologist, marine
81522	82620	Beainer, assistant	21318	22110	Biologist, molecular
81522	82620	Beamer (cotton/silk/jute)	21319	22110	Biologists, botanists, zoologists and related professionals,n.e.c
91111	91310	Bearer	21208	21220	Biometrician
72134	72132	Beater, (sheetmetal/vehicle/ aircraft)	21312	22124	Biophysicist / Biochemist
73138	73130	Beater, gold	21208	21220	Biostatistician
51421	51411	Beautician/Beauty parlor( make-up (stage/studio))	21318	22110	Biotechnologist
51523	51210	Bed and breakfast operator	26364	24603	Bishop (arch-)
81813	81311	Bedder, pottery and porcelain	72211	72210	Blacksmith
61231	61230	Beekeeper(market)	75145	74144	Blancher, nuts (hand)
21318	22110	Behaviourist, animal	31351	81220	Blast furnace operator
96211	91512	Bellboy	75424	71121	Blaster
96216	91510	Bellgirl	71137	71220	Blaster, sand: stonecutting
96216	91510	Bellhop	91294	91320	Blaster, water: cleaning
26528	24530	Bell-ringer	73184	74311	Bleacher,fibre(textile)
73151	73220	Bender, glass (tube)	31341	81550	Blender (lead/ oil (petroleum refining)
72143	72142	Bender, plate (metal)/ (ship frame)	81605	82752	Blender (oils and fats)
71143	71232	Bender, steel (reinforced concrete)	75161	74160	Blender(tobacco)
75223	74227	Bender, Wood	75153	74153	Blender, (coffee /tea/ wine)
93311	93310	Berther, dock	81421	82320	Blender, (plastics)
43232	41331	Berthing master	73184	74311	Blender, fibre(textile)
73154	73221	Bevelle (glass)	93296	93222	Blocker out (glass)
96242	91310	Bhishti (water carrier)	81592	82690	Blocker, hat
26221	24320	Bibliographer	71121	71220	Blocklayer
95103	91202	Billposter	26425	24510	Blogger
96296	91200	Billsticker	73152	73220	Blower, (glass/ scientific glass)
26411	24510	Biographer	72243	72241	Bluer(metal)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71158	71240	Boatbuilder, wood	21316	22111	Botanist, morphologist
83501	83400	Boatman (any type)	93291	93220	Bottler (hand)
83501	83400	Boatswain	54148	91520	Bouncer
81523	82620	Bobbin man	34213	34750	Boxer
34352	34710	Body artist	93296	93220	Boxer(hand packing)
34213	34750	Bodybuilder, muscles	96216	91510	Boy, messenger
72134	72130	Bodybuilder, vehicle: metal	34357	34710	Boy, script
54144	51692	Bodyguard	51517	51211	Boy,hostel
72121	72120	Boiler making/ electric/ gas/ thermite / any type)	71191	71290	Bracer(construction)
31331	81520	Boiler man (chemical heat treating)	83121	83120	Brakeman/Breaker, (railway yard/ train)
81606	82760	Boiler, sugar	13464	13196	Branch manager (assistant), bank
72135	72130	Boilermaker	13466	13170	Branch manager, Insurance agency
81118	71110	Bolter, roof: mining	13463	13196	Branch-manager, financial institution
03100	01100	Bombardier	13242	13162	Branch-manager, road transport/ transport operations department
24134	24190	Bond analyst	72122	72121	Brazier (any type)
75113	74111	Boner (fish/meat)	81711	81420	Breaker man, rag (paper making)
32301	32410	Bonesetter	51645	61290	Breaker, horse
26362	24601	Bonze	61293	61292	Breeder (bird, mammal,ostrich, reptile etc) (market)
73231	73450	Bookbinder	61222	61220	Breeder, (poultry/ egg production) (market)
33131	34330	Bookkeeper (ledger/accounts payable (or receivable)	61293	61290	Breeder, deer(market)
42121	42130	Bookmaker	61293	61290	Breeder, game bird(market)
75238	74230	Borer, wood	51645	61290	Breeder, laboratory: animal
81131	81130	Borer,well	61293	61290	Breeder, lion(market)
73154	73221	Borer/ (glass)	61213	61290	Breeder, reindeer(market)
72236	72232	Borer/ driller (metal)	61293	61290	Breeder, snail(market)
31215	71110	Boss, shift: mining	61213	61210	Breeder, stud(market)
21316	22111	Botanist	81609	82780	Brewer, operating machinery
21316	22111	Botanist ,economic			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71121	71220	Bricklayer (construction / firebrick (kiln/oven)/ chimney/ furnace lining)	74123	72412	Builder(armature
71121	71220	Bricklayer, refractory	75361	74420	Builder, (shoes)
01100	01100	Brigadier, army	81413	82311	Builder, bead (tyre-making)/
81311	81511	Brineinaker (salt production)	34213	34750	Builder, body: muslces
75117	74113	Briner ( foodstuffs)	72135	72130	Builder, body: vehicle (metal)
33111	34110	Broker (foreign exchange/investment/securities/s tocks and shares)	82196	82900	Builder, box
33241	34210	Broker( commodity/grain)	71123	71220	Builder, chimney
33241	34210	Broker(livestock/trade/cars/ shipping)	71112	71290	Builder, house (non-traditional materials)
33313	34220	Broker, cargo	71111	71210	Builder, house (traditional materials)
33314	34220	Broker, customs	73126	73120	Builder, organ
33111	34110	Broker, finance	81427	82320	Builder, plastic boat
33241	34210	Broker, futures: commodities	13235	12230	Builder, project
33111	34110	Broker, futures: financial	75223	74227	Builder, vehicle-body/ frame (wooden)
33212	34120	Broker, insurance	75161	74161	Bulker( tobacco)
33111	34110	Broker, lease	93212	93220	Bundler
33111	34110	Broker, mortgage	72123	72122	Burner (lead)
81225	82232	Bronzer	62108	61410	Burner, charcoal(market)
34135	34800	Brother	31341	81550	Burner, petroleum refining
93293	93221	Bubble cooler (glass manufacturing)	72243	72241	Burnisher ,metal
73156	73224	Bubbler (glass manufacturing)	73145	73211	Burnisher( ceramics)
62106	61411	Bucker(logging(market)	75361	74420	Burnisher, (shoes)
61123	61124	Budder-grafter(market)	24118	24110	Bursar
72243	72241	Buffer ,metal	83311	83230	Bus driver
75354	74410	Buffer, leather	25112	21310	Business analyst (IT)
26523	24532	Bugler	24212	24190	Business consultant
71154	71242	Builder(aircraft body)/ barge/boat(wood)/shipwright (wood)	75113	74111	Butcher(fish/meat)
			51522	51210	Butler(house)
			33232	34160	Buyer (merchandise (retail/ wholesale trade)/supplies)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
<b>C</b>					
83122	83121	Cabin man	31521	31420	Captain((passenger) barge/ ferry boat/ fishing vessel)
75227	74220	Cabinet-maker	31521	31420	Captain(river boat/ ship (inland waterways/sea)/ tugboat/ port)
75227	74220	Cabinet-maker, furniture	01100	01100	Captain, air force
74223	72450	Cable man ,telephone/telegraph	31532	31430	Captain, aircraft
74226	72430	Cabler, data	01100	01100	Captain, army
74226	72430	Cabler, telecommunications	62227	61520	Captain, fishing: coastal waters(market)
96215	91513	Caddie (golf)	62234	61530	Captain, fishing: deep-sea(market)
01100	01100	Cadet, officer: armed forces	01100	01100	Captain, group: air force
52461	52201	Cafeteria counter attendant	01100	01100	Captain, navy
81543	82640	Calenderer, cloth	93343	93330	Captain, night: supermarket
81573	82640	Calenderer, laundry	13124	12210	Captain, shore: fishing
73115	73110	Calibrator, precision instrument	13248	12260	Captain, shore: shipping
73115	73110	Calibrator, weights and measures	91222	91428	Car detailer
52442	91130	Call centre salesperson	83221	83220	Car driver
26412	24510	Calligrapher	95105	91200	Car guard
35211	31311	Cameraman, motion picture	95105	91200	Car window washer
35211	31310	Cameraman, video	81608	82781	Carbonationman, malt liquor
73212	73434	Cameraman, xerography (offset printing)	81217	81232	Carboniser (metal)
75141	74140	Canner(fruit)	81542	82641	Carboniser (wool)
75143	74141	Canner(vegetable)	73184	74311	Carder , fibre(textile)
26365	24600	Canon	22122	22210	Cardiologist
33222	34151	Canvasser	53113	51310	Carer, child
52432	91130	Canvasser, door-to-door	53226	51330	Carer, home: aged or disabled persons
61228	61220	Caponizer(market)	53226	51330	Carer, respite
31521	31420	Captain	51531	91410	Caretaker ,building
31531	31430	Captain (junior), aircraft	51534	91411	Caretaker, jockey room
			26514	24523	Caricaturist



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71156	71240	Carpenter	52305	42110	Cashier, box-office
71151	71240	Carpenter (bridge/ construction/ maintenance/ mine )	52305	42110	Cashier, cash desk
71152	71240	Carpenter(stage/theatre)	42112	42110	Cashier, change-booth
71153	71240	Carpenter(wharf/ ship's)	52305	42110	Cashier, check-out: self-service store
71156	71240	Carpenter, finish	42112	42120	Cashier, currency exchange
71156	71240	Carpenter-joiner	52305	42110	Cashier, office
91291	91321	Carpet cleaner	52305	42110	Cashier, restaurant
75337	74363	Carpet man (ship)	52305	42110	Cashier, service station
73187	74360	Carpet-maker	52305	42110	Cashier, store
96215	91513	Carrier	52305	42110	Cashier, supermarket
93131	93130	Carrier, bricks	71142	71233	Caster
93131	93130	Carrier, hod	72116	72111	Caster(metal)
21659	21482	Cartographer(including marine)	73213	73420	Caster, (stereotype/ electrotpe)
26514	24523	Cartoonist, motion picture	72214	72213	Caster, dye-casting (metal)
75224	74227	Cart-Wright	73132	73131	Caster, Jewellery moulds
71132	71131	Carver (stone)	73146	73211	Caster, pottery and porcelain
73132	73131	Carver, ornaments	26224	24320	Cataloguer
75224	74226	Carver, plastics wood/ivory/bone)	26221	24320	Cataloguer (library)
71133	71132	Carver-setter,monument	44112	41411	Cataloguer, clerical
81138	81134	Caser, (oil and gas wells)	72146	72145	Caulker
34121	34600	Caseworker (child/family/social welfare) associate professional	96223	91510	Cellarhand, hotel
26351	24460	Caseworker, (child/family/social welfare) (professional)	96223	91510	Cellarhand, restaurant
42111	42110	Cash-accounting	93291	93220	Cellarhand, wine production
42111	42110	Cashier	96216	91512	Cellarman
52301	42110	Cashier (other)	96223	91510	Cellarman, restaurant
42112	42110	Cashier, bank	26523	24532	Cellist
52305	42110	Cashier, booking-office	75361	74420	Cementer, (shoes)
			31177	31172	Cementer, oil and gas well

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
24227	34490	Censor, film	11208	12100	Chancellor, university
24227	34490	Censor, government	75361	74420	Channeller, (shoes),upper
33593	34494	Censor, government administration	26364	24603	Chaplain/ Curate/ Missionary
31352	81210	Central control caster	93298	93210	Charger /Re-charger (battery)
93121	93120	Chainman (surveying)	83443	83341	Charger machineman, (rolling mill)
11117	11108	Chairman ((local body /district council)	81211	81211	Charger, furnace (ore smelting and refining)
11117	11108	Chairman(deputy),senate	74121	72410	Charger, lamp (mining)
11113	11106	Chairman, all government bodies	24114	24110	Chartered/ Certified accountant
11204	12104	Chairman, council of Islamic ideology	91112	91310	Charworker (domestic)
11204	12104	Chairman, Islamic research institution	91121	91320	Charworker (non-domestic)
11113	11106	Chairman, public service commission	91126	91320	Charworker, hotel
11146	11430	Chairperson, charity	91126	91320	Charworker, office
11146	11420	Chairperson, employers' organization	91126	91320	Charworker, restaurant
11208	12100	Chairperson, enterprise	83225	83220	Chauffeur, motor-car
11146	11430	Chairperson, environment protection organization	96294	91526	Checker ,ticket (non- travel)
11146	11430	Chairperson, human rights organization	43231	41330	Checker, bogey (railway)
11146	11430	Chairperson, humanitarian organization	75432	31525	Checker, ceramic
11203	12102	Chairperson, organization	81811	81310	Checker, (glassmanufacturing) lehr
11141	11410	Chairperson, political party	41101	41900	Checker, time
11146	11430	Chairperson, special-interest organization	52222	52200	Checkout supervisor
11146	11430	Chairperson, sports association	34341	51220	Chef
11146	11420	Chairperson, trade union	34341	51220	Chef de cuisine Cook
11146	11430	Chairperson, wild life protection organization	34343	51220	Chef, head
91121	91320	Chambermaid	34342	51220	Chef, pastry
11205	12105	Chancellor (vice). University	21451	21460	Chemical-engineer (petroleum and natural gas)
11112	11105	Chancellor, government	21138	21130	Chemist
			21136	21130	Chemist ( leather/ dye/ paint/ textile)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21131	21130	Chemist (agriculture/ forest/ biological)	22697	51410	Chiropodist
21135	21130	Chemist (industrial alcohols/ inorganic)	22697	32260	Chiropractor
21137	21130	Chemist (organic/ petroleum/ plastics/polymer /rubber)	26522	24531	Choirmaster
21139	21130	Chemist ,chief	92153	92120	Chokerman
21132	21130	Chemist, analytical	92153	92120	Chokerwoman
21133	21130	Chemist, food	26532	24540	Choreographer
21134	21130	Chemist, glass	26522	24531	Chorusmaster
22626	22240	Chemist, hospital	51531	91410	Chowkidar (building)
21139	21130	Chemist, other/general	35211	31311	Cinematographer
21138	21130	Chemist, pharmaceutical	21421	21420	Civil-engineer, aerodrome construction
21132	21130	Chemist, physical	21423	21420	Civil-engineer, highway, street construction and bridge construction
21138	21130	Chemist, research	21424	21420	Civil-engineer, hydraulic/ hydrology/irrigation
22626	22240	Chemist, retail	21429	21420	Civil-engineer, other ,n.e.c
26121	24220	Chief justice, high court/ supreme court/ other	21425	21420	Civil-engineer, public health/ sanitary
11128	11272	Chief (assistant/deputy) (government official)	21426	21420	Civil-engineer, railway construction
31511	31410	Chief engineer, ship	21427	21420	Civil-engineer, soil mechanics
11111	11101	Chief minister	31121	31120	Civil-engineering technician/ hydrology/irrigation/public health
11123	11100	Chief secretary	31121	31120	Civil-engineering technician (construction)/dredging / hydraulics
21208	21220	Chief statistician	31121	31120	Civil-engineering technician (sanitary/soil mechanics/ structural)
11116	11108	Chief whip	71265	71362	Clamp man (pipeline construction)
11131	11300	Chief, village	75155	74156	Clarifier /Racker, (wine)
13231	13130	Chief-manager (Construction)	26523	24532	Clarinetist
13221	13120	Chief-manager (Mining)	75351	74410	Classer( hide/skin)
13211	13120	Chief-manager, manufacturing	73187	74310	Classer, fibre: textile
13414	13190	Child care services managers			
71331	71430	Chimney-sweep			
81214	81222	Chipper (blooms/billets)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75351	74410	Classer, pelt	92154	92120	Clearer, tree
75435	31520	Classer, wool	44111	41410	Clerk (Assistant), book-loan / library
81218	81210	Classifier, aluminum	34113	34320	Clerk (barrister's/court/ judge's/legal/ probate)
75432	31525	Classifier, tyre	44199	41900	Clerk (other)
91122	91321	Cleaner (bus/train/aircraft/ garage)	52302	42112	Clerk (toll collection)
93121	93121	Cleaner (karez)	44151	41411	Clerk , filing
91122	91321	Cleaner and helper (factory/ office/ hotel/furniture/ turbine)	43235	41310	Clerk .logistics
91231	91421	Cleaner, window	42121	42130	Clerk bookmaking
81511	82610	Cleaner, card (textile)	31127	31122	Clerk of works
91294	91320	Cleaner, cooling tower	41316	41120	Clerk other
91116	91311	Cleaner, domestic	52303	42111	Clerk ticket issuing (entertainment and sporting events)
91294	91320	Cleaner, drain	43121	41220	Clerk( actuarial / adjustment/ finance/ tax / currency)
91294	91320	Cleaner, dry: carpet	43122	41221	Clerk( bond / brokerage/ collateral/ credit/mortgage/ investment/ securities)
91214	91330	Cleaner, dry: hand	43123	41222	Clerk( statistical/ rating)
91294	91320	Cleaner, filter	44133	41432	Clerk, document-sorting machine
91294	91320	Cleaner, graffiti	43111	41210	Clerk, accounts/ bookkeeping (accounts/ discount)
91294	91320	Cleaner, gutter	44115	41410	Clerk, acquisitions: library
91127	91320	Cleaner, hospital	41321	41140	Clerk, adding machine
72246	72240	Cleaner, metal	44194	41900	Clerk, addressing machine
96134	91620	Cleaner, park	34113	34322	Clerk, adjustment(insurance)/ insurance)
91294	91320	Cleaner, pool	44194	41900	Clerk, advertising
96134	91620	Cleaner, street	43231	41330	Clerk, air transport operations
91294	91320	Cleaner, upholstery	42263	42220	Clerk, appointments
91221	91420	Cleaner, vehicles (hand)	43114	41213	Clerk, auction
81135	81132	Cleaner, well (petrol and gas)	43122	41210	Clerk, audit
71331	71430	Cleaner/ Sweep(chimney/flue)	42112	42110	Clerk, bank
93121	93120	Clearer, (land)			
51314	51234	Clearer, canteen/ restaurant/table			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
42141	42150	Clerk, bills	43214	41310	Clerk, depository: furniture
42212	42210	Clerk, booking/ ticket issuing (travel agency)	43235	41330	Clerk, dispatch: air transport
42224	42220	Clerk, call centre	44124	41420	Clerk, dispatch: mail
42213	51110	Clerk, check-in: airport	43214	41310	Clerk, dispatch: stock
44112	41411	Clerk, classification/ index	44155	41410	Clerk, document duplication
44135	41430	Clerk, classification: data processing	43122	41220	Clerk, finance
44135	41430	Clerk, classification: statistics	33125	34190	Clerk, finance: approving or assessing credit or loans
44194	41900	Clerk, classified advertising	33125	34190	Clerk, finance: processing credit applications or loans
44135	41430	Clerk, coding	43235	41330	Clerk, flight operations
32524	41430	Clerk, coding: clinical	44142	41441	Clerk, form filling assistance
44135	41430	Clerk, coding: data-processing	43231	41330	Clerk, forwarding (shipping and receiving)
44135	41430	Clerk, coding: statistics	44115	41410	Clerk, franking machine
44161	41901	Clerk, compilation (directory)	43211	41310	Clerk, freight (any type of freight)
41322	41140	Clerk, comptometer	43214	41310	Clerk, freight: dispatching
41323	41140	Clerk, computing machine	43214	41310	Clerk, freight: inward
34113	34321	Clerk, conveyancing/insurance	43235	41310	Clerk, freight: receiving
44154	41410	Clerk, copying	43235	41310	Clerk, freight: routing
44194	41900	Clerk, correspondence	43235	41310	Clerk, freight: shipping
33433	34312	Clerk, correspondence and reporting	43235	41310	Clerk, freight: traffic
43112	41210	Clerk, cost computing / estimating/ invoice/ ledger	43214	41310	Clerk, goods: inward
42224	42220	Clerk, customer contact centre	43235	41310	Clerk, goods: railway
44192	41905	Clerk, cypher / kardex	44165	41900	Clerk, human resources
41322	41131	Clerk, data converter (any medium)	42251	42220	Clerk, information
41321	41130	Clerk, data entry/punching machine (keys)/ electronic mail	42224	42220	Clerk, information: call centre
41322	41130	Clerk, data entry/punching machine(card & tape)	42224	42220	Clerk, information: customer contact centre
41324	41130	Clerk, data input	42213	42210	Clerk, information: travel
			42252	42220	Clerk, inquiries: counter

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
43122	34320	Clerk, insurance	44114	41412	Clerk, reproduction (office)
41313	41112	Clerk, justowriting	44156	41410	Clerk, reproduction processes: office
44165	41900	Clerk, leave	42213	42210	Clerk, reservations: travel
44194	41900	Clerk, list: addresses	44165	41900	Clerk, roster
44194	41900	Clerk, list: mail	44165	41900	Clerk, rostering workers
44135	41430	Clerk, listing	43132	41211	Clerk, salaries/wages
44115	41410	Clerk, loans: library	52235	52200	Clerk, sales
43234	41310	Clerk, logistics	43214	41310	Clerk, scale
44124	41420	Clerk, mail	43223	41320	Clerk, schedule: materials
41104	41904	Clerk, office (general)	44135	41430	Clerk, scripts
43113	41212	Clerk, office cash	44163	41900	Clerk, staff
43223	41320	Clerk, order: materials	43212	41311	Clerk, stock-control (inventory /records)/ warehouse/ supply
41324	41130	Clerk, payment entry	52235	52200	Clerk, store: sales
43131	41211	Clerk, payroll	43214	41310	Clerk, storeroom
44165	41900	Clerk, personnel	42271	41222	Clerk, survey
44152	41412	Clerk, photocopying	43214	41310	Clerk, tally
43221	41320	Clerk, planning (materials)	41317	41120	Clerk, teleprinter
44122	41421	Clerk, post office	41315	41121	Clerk, telex/fax
42113	42122	Clerk, post office counter	42213	42210	Clerk, tourism information
43223	41320	Clerk, production	42213	42210	Clerk, travel
43222	41320	Clerk,production planning/coordination/ schedule	42213	42210	Clerk, travel desk
44132	41431	Clerk, proof reading	41317	41110	Clerk, typing
44194	41900	Clerk, publication	42291	42220	Clerk, ward
43214	41310	Clerk, receiving	43214	41310	Clerk, weighbridge
44162	41902	Clerk, records (personnel)	43214	41312	Clerk, weighing
42213	42211	Clerk, recreational	41314	41120	Clerk, word processing
44165	41900	Clerk, recruitment	42222	42221	Clerk/officer, information
			42251	42221	Clerk/officer, inquiries

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
42291	42220	Client information worker (other)	75362	74420	Cobbler
21121	21120	Climatologist	44136	41430	Coder, clerical
62106	61411	Climber (high)/ Jogging(market)	44136	41430	Coder, data-processing
62108	61410	Climber, high: logging(market)	44136	41430	Coder, statistics
62108	61410	Climber, logging(market)	73231	73450	Collator ,bookbinding
92155	92120	Climber, tree	92121	92111	Collector (animal)
32521	41430	Clinical coder	96232	91530	Collector (coin machine/ vending machine / meter/ turnstile/ money/tokens)
22402	32210	Clinical officer (paramedical)	11121	11202	Collector (deputy, asstt) of customs
26341	24450	Clinical Psychologist	96111	91610	Collector (garbage/ refuse/ recycling material)
75337	74366	Clipper, carpet	42141	42150	Collector, account
81115	71111	Clipper, mine	42142	42151	Collector, bill/ charity/ coupon/ debt/ payment/ rent
44195	41900	Clipper, press	96234	91530	Collector, coin meter
26592	34741	Clown	92127	92110	Collector, egg
34221	34751	Coach, (athletic/sports/games)	33523	34420	Collector, tax
42225	42220	Coach, call centre	96294	91526	Collector, ticket (non- travel)
42225	42220	Coach, contact centre	52306	42110	Collector, toll
23555	23590	Coach, dance	01100	01100	Colonel, army
23555	33400	Coach, dance sport	26421	24510	Columnist
23593	33400	Coach, debating	73187	74310	Comber, fibre: textile
26543	24550	Coach, dramatic	26596	34740	Comedian
24247	24120	Coach, executive	26596	34740	Comedian, stand-up
23593	33400	Coach, mathematics: private tuition	26592	34744	Comic actor
42225	42220	Coach, phone	11122	11213	Commandant
23543	23590	Coach, vocal	01100	01100	Commander, navy
81411	82312	Coagulator, latex	01100	01100	Commander, wing: air force
93331	91620	Coalman	03100	01100	Commando, army
54191	51693	Coastguard	26426	24514	Commentator, (news/sports/weather/ motion picture)
81713	81421	Coater, paper (tar or asphalt),			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
01100	01100	Commissioned officers (all forces)	26521	24530	Composer, music
11126	11251	Commissioner (assistant/ deputy/ additional), district Judiciary and District Administration	73211	73410	Compositor, printing (hand)/
11128	11271	Commissioner (deputy), agriculture	81313	82211	Compounder, perfume
11126	11251	Commissioner, Chief(government official)	32132	32280	Compounder, pharmaceutical
11128	11271	Commissioner, cotton	32404	32271	Compounder, veterinary
11115	11109	Commissioner, election (chief/ deputy)	81608	82781	Compounder, wine
11126	11200	Commissioner, fire	11121	11201	Comptroller
11126	11200	Commissioner, high: government	35121	31210	Computer Assistant (database analysis/ systems analysis /engineering)
11126	11200	Commissioner, inland revenue	35122	31213	Computer Assistant (programming/ communications)
26112	24211	Commissioner, oath	35141	31212	Computer Assistant (systems design/users' services)
11122	11200	Commissioner, police	35142	31210	Computer Assistant ,Website (administrator/technician)
01100	01100	Commodore, air	25135	21390	Computer games programmer
01100	01100	Commodore, navy	23563	23590	Computer hardware trainer
25231	21312	Communications analyst (computers)	25115	21310	Computer scientist
26411	24510	Communicator, technical	25291	21390	Computer security specialist (ICT)
13444	13190	Community center manager	23561	23590	Computer trainer
32531	32210	Community health aide	21659	21481	Computer, air survey
32532	32210	Community health promoter	75127	74120	Concher, chocolate
32533	32210	Community health worker	51531	91410	Concierge
74123	72412	commutator/ core)	54145	91520	Concierge (hotel desk)
73132	73131	Compactor ,ornaments	54148	91520	Concierge, hotel
51623	51423	Companion	24236	24120	Conciliator, labour relations
53226	51330	Companion, aged care	24234	24121	Conciliator, labour-management relations
53226	51330	Companion, disabled	24236	24120	Conciliator, workplace
51624	51420	Companion, except health or aged care	71141	71230	Concrete, reinforced
51626	51420	Companion, man's	81511	82610	Condenser man, wool
26562	34720	Compere			
44196	41900	Compiler, directory			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75162	74161	Conditioner(tobacco)	24325	24190	Consultant, communications
81517	82610	Conditioner, yarn	25222	21310	Consultant, computer systems: managing system
26522	24531	Conductor (orchestra/ vocal group)	23564	23590	Consultant, computer training
51121	51120	Conductor( (trolley)bus/ cable car/ ferryboat/ hovercraft)	21327	32130	Consultant, crop
51121	51120	Conductor( pull man car/ tram/ train )	25295	21390	Consultant, data mining
51124	51120	Conductor, sleeping car	22654	32230	Consultant, dietetic
75312	74331	Coner, hat forms)	22651	32230	Consultant, dietetic (food processing)
75125	74121	Confectioner	25295	21390	Consultant, digital forensics
33321	34390	Conference and event organizer	21339	22110	Consultant, ecological
33322	34390	Conference planner	26315	24410	Consultant, economic development
26593	34742	Conjuror	23517	23510	Consultant, education
21335	22110	Conservation scientist	42294	42220	Consultant, eligibility
21339	22110	Conservationist, soil	22129	22210	Consultant, endocrinology
26216	24310	Conservator	21458	21461	Consultant, engineering, chemical
62107	61412	Consrvator (forest) (market)	21339	22110	Consultant, environmental
54121	51620	Constable	22636	32220	Consultant, environmental health
11122	11200	Constable, chief: police	21339	22110	Consultant, environmental management
33556	34500	Constable, detective	21436	21490	Consultant, environmental remediation
33438	34390	Consul	33324	34390	Consultant, events management
11129	11200	Consul-general	21327	32130	Consultant, farm management
24118	24110	Consultant, accountancy	24125	24110	Consultant, financial
24317	24190	Consultant, advertising	24125	24190	Consultant, financial advice
21327	32130	Consultant, agricultural	31124	31510	Consultant, fire prevention
21436	21490	Consultant, air pollution control	51413	51410	Consultant, hair care
24118	24110	Consultant, audit	24224	24190	Consultant, health care planning
51426	51410	Consultant, beauty	24236	24120	Consultant, human resources
25117	21310	Consultant, business: information technology	25222	21310	Consultant, information systems: managing system

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
25222	21310	Consultant, information technology: managing system	24125	24190	Consultant, pensions
25222	21310	Consultant, information technology: systems administration	24236	24120	Consultant, personnel
23564	23590	Consultant, information technology: training	24125	24190	Consultant, property: investment
25222	21310	Consultant, information technology: unix administration	24325	24190	Consultant, public relations
25137	21310	Consultant, internet: developing websites	22636	32220	Consultant, radiation protection
35124	31210	Consultant, internet: helpdesk	24236	24120	Consultant, recruitment
25137	21320	Consultant, internet: programming	52235	52200	Consultant, sales: automobile
35124	31210	Consultant, internet: support	24347	34150	Consultant, sales: computer systems
24125	24190	Consultant, investment: advising clients	52432	91130	Consultant, sales: door-to-door
24135	24190	Consultant, investment: financial analysis	24336	34150	Consultant, sales: engineering
35124	31210	Consultant, IT, helpdesk	24347	34150	Consultant, sales: information technology
21339	22110	Consultant, land management: environmental management	33225	34150	Consultant, sales: manufacturing
21327	32130	Consultant, livestock	52443	91130	Consultant, sales: outbound calls
24214	24190	Consultant, management	52492	52200	Consultant, sales: rental
24317	24190	Consultant, market: research	24347	34150	Consultant, sales: technical (ICT)
24317	24190	Consultant, marketing	24336	34150	Consultant, sales: technical except , information and communications technology(ICT)
22117	22214	Consultant, medical insurance	52443	91130	Consultant, sales: telemarketing
22118	22210	Consultant, medical: general practice	54148	51690	Consultant, security
22129	22210	Consultant, medical: specialist	25295	21390	Consultant, security: computer
22129	22210	Consultant, medical: specialist physician	25295	21390	Consultant, security: data
21339	22110	Consultant, natural resource management	25295	21390	Consultant, security: ICT
22218	22300	Consultant, nurse: clinical	24224	24190	Consultant, security: policy
22636	31520	Consultant, occupational health and safety	51426	51410	Consultant, slimming
22636	31520	Consultant, occupational hygiene	24224	24190	Consultant, social policy
52432	91130	Consultant, party plan	35124	31210	Consultant, software support
			21327	32130	Consultant, soil

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
24246	24120	Consultant, staff development: training	43236	41310	Controller, clerical: railway service
24125	24190	Consultant, superannuation: providing advice	43236	41310	Controller, clerical: train
35124	31210	Consultant, support: information technology	43236	41310	Controller, clerical: transport service
35124	31210	Consultant, technical: software support	33126	34190	Controller, credit: assessing credit worthiness of clients
52443	91130	Consultant, telesales: cold calling	24118	24110	Controller, financial
52443	91130	Consultant, telesales: outbound calls	75432	31522	Controller, lehr (glass manufacturing)
42214	34140	Consultant, travel	75444	71430	Controller, pest
51426	51410	Consultant, weight loss	13226	12220	Controller, production: mining
26595	34745	Contortionist	75433	31526	Controller, quality
13234	13130	Contractor( construction)	11129	11282	Controller, rationing
13235	12230	Contractor, building: project management	31391	31230	Controller, robot
91127	91320	Contractor, cleaning	31394	31230	Controller, robot: industrial
61137	61130	Contractor, gardening(market)	33418	41110	Controller, typist
33331	34230	Contractor, labour	75444	71430	Controller, weed
61137	61130	Contractor, landscaping(market)	31337	81540	Converter/ vacuum pan
92144	92110	Contractor, lawnmowing	94111	51220	Cook (fast food/ short order)
92144	92110	Contractor, mowing	51205	51223	Cook, (fish/meat) / sterilizing/ pressure
75444	71430	Contractor, spraying: pest or weed control	51201	51220	Cook, canteen/restaurant/work camp/ ship
26526	24530	Contralto	34342	51220	Cook, chief
12111	12310	Controller of branches (banking)	51203	51221	Cook, domestic
11127	11261	Controller, (deputy) drugs	94111	51220	Cook, hamburgers
31541	31440	Controller, air traffic	34342	51220	Cook, head
44121	41420	Controller, clerical (mail/postal service)	94111	51220	Cook, pizza
43236	41310	Controller, clerical: air transport service	75142	51220	Cook, preserving
43236	41310	Controller, clerical: airline traffic	51204	51222	Cook, private service
			34342	51220	Cook, sauces and condiments
			51202	51220	Cook, special diets/ vegetable

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
94111	51220	Cook, take away	31215	71110	Coordinator, shift: mining
91293	91321	Cooling tower (Air conditioner) cleaner	31233	12230	Coordinator, site: building
93332	93331	Cooly	31233	12230	Coordinator, site: construction
93127	93122	Cooly, rig	25193	21390	Coordinator, software testing
75224	74222	Cooper	34357	34710	Coordinator, stunt
31541	31440	Coordinator) air traffic	25193	21390	Coordinator, test: software
33418	34390	Coordinator, administration: office administration or management	35143	31210	Coordinator, web: managing website
31224	82900	Coordinator, area: manufacturing	33324	34390	Coordinator, wedding
31233	12230	Coordinator, building: construction	26417	24511	Copy holder, / Proof Reader
21339	22110	Coordinator, catchment: environment	75321	74350	Copyist, jacquard design
13433	13190	Coordinator, community aged care	24316	24510	Copywriter, advertising
13424	13190	Coordinator, community health care	24324	24510	Copywriter, publicity
33324	34390	Coordinator, conference	26417	24510	Copywriter, technical
31233	12230	Coordinator, construction site	72117	72112	Core maker, metal
44166	41900	Coordinator, crewing	26528	24530	Cornetist
23517	23510	Coordinator, curriculum	26196	24296	Coroner
21339	22110	Coordinator, environmental	03100	01100	Corporal, air force
33324	34390	Coordinator, events	03100	01100	Corporal, army
33324	34390	Coordinator, function	12133	1229	Corporate planning manager
11125	11240	Coordinator, general (foreign services)	73218	73430	Corrector (zinc)
11123	11222	Coordinator, Hajj	26423	24513	Correspondent (newspaper/journal/other)
25222	21310	Coordinator, information services: managing computer system	51421	51411	Cosmetologist
12134	12290	Coordinator, policy: government	11112	11105	Councilor ( city/ government)
31215	71110	Coordinator, production: mining	26114	24290	Counsel, legal
13433	13190	Coordinator, retirement village	26362	24601	Counsellor
			26357	24460	Counsellor, addictions
			32597	32290	Counsellor, AIDS
			26357	24460	Counsellor, bereavement

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26357	24460	Counsellor, child and youth	02100	01100	Coxswain, navy: warrant officer
23594	23590	Counsellor, college	83431	83330	Crane-operator ((bridge)/ (crawler)/ (floating)
24232	24120	Counsellor, employment/ vocational guidance	83431	83330	Crane-operator ,(locomotive)/ (mobile)/ (railway)
26357	24460	Counsellor, family	83431	83330	Crane-operator ,(stationary jib)/ (tower)/ (tractor)/ portal)
32597	32290	Counsellor, family planning	93211	93220	Crater, hand
32597	32290	Counsellor, HIV	33123	3419	Credit officer
26357	24460	Counsellor, marriage	13465	12270	Credit Union Manager
23594	23590	Counsellor, school	73178	74240	Creeler
26357	24460	Counsellor, sexual assault	62242	61540	Crewman(whaling vessel) (market)
23594	23590	Counsellor, student	62232	61531	Crewman, (market)
42214	42210	Counsellor, tourism information	03100	01100	Crewman, armored fighting vehicle
42214	42210	Counsellor, travel	03100	01100	Crewman, armored personnel carrier
42214	42210	Counsellor, visitor information	83502	83400	Crewman, dredger/yacht
52461	52201	Counterman	03100	01100	Crewman, tank
83123	83122	Coupler	03100	01100	Crewwoman, armored fighting vehicle
33439	34391	Courier, diplomatic	03100	01100	Crewwoman, armored personnel carrier
83225	83220	Courier, driving car	03100	01100	Crewwoman, tank
83225	83220	Courier, driving van	34216	34750	Cricketer
83214	83210	Courier, motorcycle	26324	24423	Criminologist
96216	91510	Courier, on foot	26411	24510	Critic (any specialism)
44123	41422	Courier, travel	26425	24510	Critic, art
81511	82610	Coverer, flat	73187	74320	Crocheter
75331	74360	Coverer, roller (leather)	61118	61110	Cropper(market) / Grower
92121	92111	Cowboy	62103	61410	Cross-cutter, (logging, sleeper, timber (forestry), pole and pile)
92121	92111	Cowherd Groom	42122	42131	Croupier
63203	62100	Cowherd: subsistence farming	42123	42130	Croupier, gambling-table
83502	83400	Coxswain, lifeboat			
02100	01100	Coxswain, navy: chief petty officer			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
62104	61410	Cruiser (timber) (market)	75493	73222	Cutter, (optical glass)
81606	82760	Crusher man (sugar)	72125	72120	Cutter, flame
21139	21131	Crystallographer	75315	74341	Cutter, fur
62211	61510	Cultivator(algae/ pearl) (market)	75314	74334	Cutter, garments (leather)
61137	61130	Cultivator, mushroom(market)	71131	71220	Cutter, granite
26212	24311	Curator, (art gallery/ museum	73161	73240	Cutter, intaglio glass
81411	82310	Cureman ( foam rubber	92144	92110	Cutter, lawn
75112	74111	Curer (fish/ meat/ chicken)	75327	74350	Cutter, pattern
81411	82310	Curer pan (rubber)	62108	61410	Cutter, pole and pile(market)
71142	71233	Curer, Concrete	72131	72130	Cutter, sheet
75354	74410	Currier, leather	73223	73460	Cutter, stencil (silk-screen)
96293	91521	Custodian	75127	74120	Cutter, sugar confectionery
52442	9113	Customer contact centre salesperson	75327	74350	Cutter, tailor's
92113	92110	Cutter (cotton/ fruit/ tea/ herbs/ vegetables/ sugar cane)	72152	72151	Cutter, thread
75325	74354	Cutter (garment/ glove (leather)/ mattress/ sail/ tent/ cover/ seat/ umbrella/ upholstery)	62108	61410	Cutter, wood: forest(market)
73154	73221	Cutter (glass)	73133	73132	Cutter-polisher(gems/jewels/ diamonds/ precious metal/ crystal,electronics
75362	74420	Cutter (leather/ shoe (hand)/ welt)	81148	73130	Cutter-polisher, industrial diamonds
81411	82310	Cutter (rubber) / cameron (rubber)	71222	71321	Cutter-setter (mosaic/ marble/ rubble stone)
71131	71130	Cutter (stone)	73161	73230	Cutter-shaper/glass
73125	73123	Cutter (woodwind reeds)	93314	93310	Cyclist, except racing
81523	82620	Cutter , jacquard card	21316	22110	Cytologist (animal/plant)
75112	74111	Cutter(fish/ meat/ chicken)	<b>D</b>		
72245	72241	Cutter(gear)	75162	74161	Dryer, (tobacco)
73185	74312	Cutter(jute)	44193	41904	Daftri
62103	61410	Cutter(railway tie)	32222	22300	Dai
75162	74161	Cutter(tobacco)	61213	92110	Dairymaid(market)
			61213	92110	Dairyman(market)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22696	32260	Dance and movement therapist/ Gymnast	33242	34210	Dealer, livestock
23551	2359	Dance teacher	96112	91610	Dealer, scrap
26534	24541	Dancer, (ballet/ ballroom/ folk/ chorus/ night-club/ tap)	33114	34110	Dealer, securities
26534	34730	Dancer, street	33242	34210	Dealer, textiles
26534	34740	Dancer, strip-tease	13452	12294	Dean
81322	73440	Darkroom worker (film/photograph printing)	81411	82312	Debugger (rubber production)
75335	74361	Darner (excluding carpets)	61228	61220	Debeaker, poultry(market)
75337	74366	Darner, carpet	34322	34711	Decorator (interior/motion picture set)
25213	21310	Data administrator	73162	73240	Decorator(freehand painting/ spray-painting)
25293	21390	Data miner	71316	71414	Decorator(ship interiors/ship's hull)
13306	13170	Data processing ,Operations manager	75127	74120	Decorator, cake
25212	21313	Database administrator	73162	73240	Decorator, ceramics/ glass
25211	21312	Database analyst	21637	34711	Decorator, display (window)
25211	21312	Database architect	34322	34710	Decorator, film set
22626	21133	Dawasaz	73162	73240	Decorator, pottery
26365	24600	Deacon	73184	74311	Deg'ummer ,hand
33395	13140	Dealer, art	72245	72244	Degreaser(metal)
33114	34110	Dealer, bond	75358	74410	Dehairer, hide
14207	13140	Dealer, car: managing and supervising staff	96212	91510	Deliverer (hand/ newspapers)
33242	34210	Dealer, commodities	93314	93310	Deliverer, bicycle
33242	34210	Dealer, commodity futures	83226	83220	Deliverer, driving car
33114	34110	Dealer, foreign exchange	83226	83220	Deliverer, driving van
33242	34210	Dealer, futures: commodities	96217	91510	Deliverer, leaflets
33114	34110	Dealer, futures: financial	83215	83210	Deliverer, motorcycle
42124	42130	Dealer, gaming	96217	91510	Deliverer, on foot
33213	34120	Dealer, insurance	96212	91510	Deliveryman
33114	34110	Dealer, investment	21205	21222	Demographer
			52421	52202	Demonstrator(sale)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21326	22130	Demonstrator, farm	12195	12292	Department –manager, production and operations (extra-territorial organizations)
31421	32130	Demonstrator, farm			
32141	73110	Dental Technician	13422	12290	Department -manager, production and operations (health)
72134	72132	Denter (sheetmetal/vehicle/aircraft)	14111	12250	Department -manager, production and operations (hotel)
32512	32252	Dentist unregistered			
22614	22222	Dentist, oral surgery	13113	12213	Department -manager, production and operations (hunting)
22611	22220	Dentist/ Dentist (public health)			
32148	73110	Denturist	13441	12290	Department -manager, production and operations (social work)
12112	12311	Department –manager (manager), accounting/ budgeting/ revenue	26541	12291	Department -manager, production and operations (stage)
12192	12281	Department –manager, production and operations (personal care) / (cleaning)	14202	12241	Department -manager, production and operations (wholesale trade)
13246	12261	Department -manager, (storage), production and operations warehouse/ stores	12222	12341	Department -manager, public relations
12111	12310	Department -manager, bank	12231	12370	Department -manager, research
12233	12370	Department -manager, development	12193	12290	Department -manager, production and operations (public administration)
13247	12350	Department -manager, distribution/ supplies/ bulk plant/ purchasing	12221	12340	Department-manager, advertising
12121	12320	Department -manager, industrial relations	13302	12360	Department-manager, computing services
12123	12321	Department -manager, personnel	12215	12333	Department-manager, marketing
13111	12210	Department -manager, production and operations (agriculture)	12191	12270	Department-manager, production and operations (business services)
13301	12262	Department -manager, production and operations (communications)	13451	12290	Department-manager, production and operations (education)
13233	12230	Department -manager, production and operations (construction)	13121	12211	Department-manager, production and operations (fishing)



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
13112	12212	Department-manager, production and operations (forestry)	34321	34710	Designer, decoration
14121	12251	Department-manager, production and operations (restaurant)	21638	34711	Designer, display
14201	12240	Department-manager, production and operations (retail trade)	21631	34710	Designer, display/exhibition
13241	12260	Department-manager, production and operations (transport)	21639	34710	Designer, dress
12194	12291	Department-manager, production and operations (travel agency)	21445	21450	Designer, engine
12211	12330	Department-manager, sales (except wholesale and retail trade) / sales promotion	21517	21430	Designer, engine: electrical
31215	71110	Deputy, mine	21632	34710	Designer, fashion
22123	22210	Dermatologist	21639	34710	Designer, furniture
81138	81130	Derrickman	21639	34710	Designer, garment
21444	21450	Designer, Mechanical-engineer (diesel/ gas turbine/ heating, ventilation and refrigeration)	21661	34710	Designer, graphic
21444	21450	Designer motor-car	21639	34710	Designer, industrial
21448	21453	Designer (aircraft)	34321	34710	Designer, interior
34321	34710	Designer (graphic/lithographic/ typographical)	21636	34710	Designer, jewellery
21639	34710	Designer (other)	21517	21430	Designer, motor: electrical
21668	34710	Designer, animation	21663	34710	Designer, multimedia (visual and audio media)
34321	34710	Designer, armorial	21639	34710	Designer, package
21662	34710	Designer, art (motion picture)	21668	34710	Designer, poster
21639	34710	Designer, clothing	21639	34710	Designer, products
21639	34710	Designer, commercial: products	21666	34710	Designer, publication
21668	34710	Designer, computer games	81214	81222	Designer, roll (rolling mill)
21639	34710	Designer, costume	34321	34710	Designer, scenery
			34321	34710	Designer, set
			34321	34710	Designer, stage
			21634	34710	Designer, stage set
			25117	21310	Designer, systems: computers
			25117	21310	Designer, systems: IT
			21635	34710	Designer, textile
			21668	34710	Designer, typographical

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21667	34710	Designer, web	81325	73440	Developer, negative: black-and-white
21633	34710	Designer,commercial products	81325	73440	Developer, negative: colour
21412	21492	Designer. systems (except computers)	81325	73440	Developer, photograph: black-and-white
91223	91420	Detailer, aircraft	81325	73440	Developer, positive: black-and-white
91224	91420	Detailer, boat	81325	73440	Developer, positive: colour
91225	91420	Detailer, car	81325	73440	Developer, print
91226	91420	Detailer, caravan	25137	21310	Developer, video game
91226	91420	Detailer, vehicles	25137	21310	Developer, web
34111	34503	Detective	25137	21310	Developer, web applications
33557	34500	Detective, police	25137	21310	Developer, web software
34111	34501	Detective, store	25137	21310	Developer, webpage
81321	73440	Developer (film/photo/x-ray film/ photographic plate)/	73131	73130	Dhagey wala
25125	21310	Developer, applications: computing (except web)	91212	91330	Dhobi
25137	21310	Developer, applications: computing (internet)	22129	22210	Dialectologist
25137	21310	Developer, applications: computing (web)	22652	32230	Dietician (therapeutic)
25137	21310	Developer, computer game	93111	93110	Digger (chalk, clay gravel or sand)
23513	23511	Developer, curricula	93128	93123	Digger (ditch/trench/ karez)
23517	23510	Developer, curriculum	81138	71360	Digger, well
25214	21310	Developer, database	71266	71362	Digger/ Sinker (well)
25137	21310	Developer, dhtml	25292	21390	Digital forensic specialist
25137	21310	Developer, flash	73145	73211	Dipper (ceramics )
25137	21310	Developer, html	81225	82232	Dipper (tin/zinc)
25137	21310	Developer, interactive	75162	74161	Dipper (tobacco)
25137	21310	Developer, internet applications	73148	73210	Dipper, ceramics
25137	21310	Developer, internet multimedia	75127	74120	Dipper, sugar confectionery
25137	21310	Developer, internet software	75215	74210	Dipper, wood treatment
25137	21310	Developer, multimedia	81225	73242	Dipper,metal artical
			34331	34711	Director (art (motion picture)/display/ art (printing)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		and publishing))	13414	13190	Director, after school care
11201	12100	Director (asstt/ deputy), health	26548	12290	Director, artistic
11202	12100	Director (broadcasting / insurance	13467	13170	Director, bank
26542	24550	Director (dance/ motion picture/ music/ radio/television/ stage/ theatrical)	12117	12310	Director, budgeting
11127	11260	Director (deputy/assistant) Medical Services	12234	12370	Director, business development: except ICT
11121	11200	Director (deputy/assistant)( Audit & Accounts, Services, Insurance & Financial Banking)	26548	12290	Director, casting
11122	11210	Director (deputy/assistant)( Police Services)	13414	12290	Director, children's services
11124	11230	Director (deputy/assistant), Educational Services	13424	13190	Director, clinical
11129	11280	Director (deputy/assistant), Engineering & Other Service	12234	12370	Director, clinical trials
11125	11240	Director (deputy/assistant), foreign services	11208	12100	Director, company
11126	11250	Director (deputy/assistant), Judiciary and District Administration	12134	12310	Director, compliance
11128	11270	Director (deputy/assistant), Research, Monitoring & Evaluation Services	12196	12310	Director, corporate services
11123	11220	Director (deputy/assistant), Secretariat & Managing Services	13496	12290	Director, design service
51632	51430	Director (funeral)	11208	12100	Director, executive
12232	12370	Director (project), agriculture information	12196	12280	Director, facilities management
11142	11420	Director general, employers' organization	12117	12310	Director, finance
13424	22300	Director of nursing	14208	13140	Director, franchise
11207	12106	Director(other)	13424	13190	Director, health facility
11202	12100	Director, company/ industry	13424	12290	Director, health service
13425	13190	Director, administration (health)	13433	13190	Director, home: aged care
12196	12310	Director, administrative services	12127	12320	Director, human resources
			13307	12360	Director, information systems
			14315	13190	Director, leisure centre
			13248	12260	Director, logistics
			11208	12100	Director, managing
			12218	12330	Director, marketing
			11207	12100	Director, mining/quarrying
			12127	12320	Director, personnel

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26547	24550	Director, photography	11124	11230	Director-general(deputy/assistant), Educational Services
12134	12290	Director, policy and planning	11147	11430	Director-general, environment protection organization
13217	12220	Director, power station	11147	11430	Director-general, human rights organization
12234	12370	Director, product development	11147	11430	Director-general, humanitarian organization
12224	12340	Director, public relations	11129	11200	Director-general, intergovernmental organization
12127	12320	Director, recruitment	11147	11410	Director-general, political party
11208	12100	Director, regional	11147	11430	Director-general, special-interest organization
12218	12330	Director, sales	11147	11420	Director-general, trade union
13458	12105	Director, school /college	11147	11430	Director-general, wild life protection organization
12134	12290	Director, strategic planning			
13453	12294	Director, student affairs	26564	34722	Disc jockey
26547	24550	Director, technical	83213	83211	Dispatch rider
51132	51130	Director, tour	42231	42230	Dispatcher, call
11128	11270	Director-general (asstt), Research, Monitoring & Evaluation Services	43231	41330	Dispatcher, clerical (air transport/ gas
11127	11260	Director-general (asstt) Medical Services	43237	41310	Dispatcher, clerical: aircraft
11129	11280	Director-general (asstt), Engineering & Other Service	43237	41310	Dispatcher, clerical: boat
11126	11250	Director-general (asstt), Judiciary and District Administration	43237	41310	Dispatcher, clerical: bus
11125	11240	Director-general (asstt), foreign services	43237	41310	Dispatcher, clerical: gas pipelines
11122	11210	Director-general (asstt)( Police Services)	43237	41310	Dispatcher, clerical: oil pipelines
11123	11220	Director-general (asstt.), Secretariat & Managing Services	43237	41310	Dispatcher, clerical: railway
11203	12101	Director-general enterprise	43237	41310	Dispatcher, clerical: train
11121	11200	Director-general(deputy/assistant)( Audit & Accounts, Services, Insurance & Financial Banking)	43237	41310	Dispatcher, clerical: transport service
			31314	81611	Dispatcher, load (electrical power station)
			31345	81551	Dispatcher, natural gas
			32541	32240	Dispenser, optical

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
32133	32280	Dispenser, pharmaceutical	22129	22210	Doctor, medical (any specialism)
22625	22240	Dispensing chemist	22113	22210	Doctor, medical (general)
31337	81540	Distiller (continuous (chemical processes (except petroleum and natural gas))	22118	22214	Doctor, medical (medical insurance consultancy)
31338	81541	Distiller (still (alcohol, perfume or turpentine))	22309	32410	Doctor, naturopathy
31337	81540	Distiller (turpentine)	22126	22210	Doctor, neurology
52433	91130	Distributor, party plan	22124	22210	Doctor, obstetrics
52433	91130	Distributor, selling door-to-door	22129	22210	Doctor, otorhinolaryngology
11126	11250	District Coordinating Officer (D.C.O)	22124	22210	Doctor, pediatrics
75411	72160	Diver (salvage)	22129	22210	Doctor, psychiatry
75411	61520	Diver(oyster)	72247	72240	Doctor, saw
75411	61520	Diver(pearl)	32302	32410	Doctor, witch
75411	61520	Diver(sponge)	22118	22210	Doctor-therapist, district medical
75411	61520	Diver, abalone	26223	24321	Document list
75411	72160	Diver, commercial	93292	93221	Doffer, cloth
75411	61520	Diver, shell fish	52431	91130	Door to door salesperson, distribution (retail)
34215	34750	Diver, springboard or platform	54145	91520	Doorkeeper
63403	62100	Diver, subsistence	81516	82612	Double sider ( rings (cotton)/ wool/ jute
75411	72160	Diver, underwater	81214	81222	Doubler (metal sheets)
81604	82740	Dividerman (bakery products)	26198	24293	Drafter, legal
51132	51130	Docent	26114	24290	Drafter, parliamentary
31156	31154	Dock master, dry/graving dock	23552	23590	Drama teacher
93331	93330	Docker	26414	24510	Dramatist
22121	22210	Doctor, anaesthetics	31182	31180	Draughts person (geological/lithographic/ technical
22305	32410	Doctor, chinese medicine	31182	31180	Draughts person (industry/motors and engines except marine/other)
22697	32260	Doctor, chiropractic	31182	31180	Draughts person ,automotive/ heating
22301	32290	Doctor, homoeopathic			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31184	31180	Draughts person, CAD	75165	74160	Drier, tobacco
31185	31180	Draughts person, civil	62232	61531	Drifter(market)
31186	31180	Draughts person, jig and tool	81138	81134	Driller ,cable (oil and gas wells)
31188	31180	Draughts person, topographical	73141	73210	Driller pottery
31181	31180	Draughts person-engineering (mechanical- marine/ aeronautical/ civil)	71135	71134	Driller stone
31181	31180	Draughts person-engineering (architectural/cartogr aphical/die/ electrical/electronic)	81138	81130	Driller, developmental
			81138	81130	Driller, directional
			73158	73220	Driller, glass
31178	31522	Draughtsman, mechanical (all kinds)	72238	72230	Driller, metal
31187	31180	Draughtsperson, structural	81118	71110	Driller, mining
73134	73132	Drawer ,wire( precious metal)	73134	73132	Driller, wire (precious metal)
72214	72213	Drawer(wire)	81131	81130	Driller/borer, well (except oil and gas)
73184	74311	Drawer, , fiber(textile)	83223	83221	Driver ( taxi (motor tricycle)/cab)
81427	82320	Drawer, fiber: optic	83222	83223	Driver (ambulance)
73151	73220	Drawer, glass (tube)	83311	83230	Driver (bus)
81116	71112	Drawer, prop,mine	83224	83220	Driver (car – delivery)
73182	74320	Drawer-in, (textile weaving)	83221	83220	Driver (car/ motor vehicle)
71132	71131	Dresser (stone)	83324	83240	Driver (dumper)
51411	51413	Dresser (wig)	83322	83241	Driver (lorry)
32213	32311	Dresser, , hospital	83211	83210	Driver (motor cycle)
75113	74111	Dresser, meat/poultry/triple	34214	34750	Driver (motor racing)
75354	74412	Dresser, pelt	83212	83210	Driver (motor tricycle)
34357	34710	Dresser, theatrical	83432	83330	Driver (overhead crane/ stripper crane/ hoist machine)
32404	32271	Dresser, veterinary	62104	61410	Driver (raft, logging) (market)
34323	34710	Dresser, window	62104	61410	Driver (river) (market)
75316	74330	Dressmaker	83312	83230	Driver (streetcar)
75316	74330	Dressmaker, theatrical	83323	83242	Driver (tanker)
75165	74160	Drier, snuff			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93324	93321	Driver (tonga/ Gadha Gari/ Rehra)	83118	83110	Driver, monorail
83411	83310	Driver (tractor)	93312	93310	Driver, rickshaw
83313	83231	Driver (tram)	93316	93310	Driver, rickshaw: cycle
83314	83231	Driver (trolley-bus/ tramcar)	93316	93310	Driver, rickshaw: foot
83321	83240	Driver (truck)	83326	83240	Driver, road train
83224	83222	Driver (van/ mail van)	83326	83240	Driver, semi-trailer
93327	93321	Driver ,baggi	83112	83110	Driver, shunting-engine
83214	83211	Driver Dispatch	83426	83320	Driver, steamroller
83411	83311	Driver( lumber carrier/ timber carrier)	83426	83320	Driver, streetsweeper
72212	72211	Driver(drop-hammer )	83118	83110	Driver, subway
93322	93321	Driver, animal-drawn vehicle (mine/quarry)	83424	83321	Driver, tar-spreading machine
93323	93322	Driver, animal-drawn vehicle (road transport)	93316	93310	Driver, taxi: bike
83441	83340	Driver, Broadbent charger	83326	83240	Driver, trailer-truck
83432	83330	Driver, cable railway	83113	83110	Driver, train (elevated/underground)
83432	83330	Driver, cage: mine	83326	83240	Driver, train: road
83315	83230	Driver, coach	93312	93310	Driver, tricycle (non-motorised)
83326	83240	Driver, concrete mixer	83326	83240	Driver, truck: heavy
83426	83320	Driver, digger: trench digging	93326	93321	Driver,camel/moule/elephant
83116	83111	Driver, engine (mine/quarry)	83111	83110	Driver/Driver-assistant, (locomotive/train)
93321	93320	Driver, farm equipment (non-motorised)	83426	83320	Driver/operator, bulldozer
83432	83330	Driver, funicular	83432	83330	Driver/operator, cage (mine)
83326	83240	Driver, garbage truck	83426	83322	Driver/operator, digger (trench digging)
93313	93310	Driver, hand truck	83425	83322	Driver/operator, excavating machine
83326	83240	Driver, heavy goods vehicle	83426	83326	Driver/operator, road roller
83117	83111	Driver, locomotive (mine/quarry)	83426	83323	Driver/operator, road, grader and scraper
75116	74113	Driver, meat/fish	83425	83320	Driver/operator, shovel (mechanical)
83118	83110	Driver, metropolitan railway	61213	92110	Drover(market)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22621	22240	Druggist	26425	24510	Editor, copy
26523	24532	Drummer	26425	24510	Editor, fashion
91295	91320	Dry-cleaner, carpet	26425	24510	Editor, features
81218	81230	Dryer, asbestos	26548	24550	Editor, film
91213	91330	Dryer, hand (laundry)	26425	24510	Editor, financial
75165	74160	Dryer, tobacco	26425	24510	Editor, foreign
26544	24551	Duplicator (motion picture)	26425	24510	Editor, political
75311	74330	Durzi	26425	24510	Editor, press
93292	93221	Duster (tyre)	26416	24510	Editor, proofreading
73165	73240	Duster, colour (ceramics decorating)	26416	24510	Editor, script
96111	91611	Dustman	35214	31312	Editor, sound (motion picture)
96233	91531	Duty jugalie	26425	24510	Editor, sports
75355	74412	Dyer (pelt/ stainer/ leather/ vat (leather/pelt))	26548	24550	Editor, video
73186	74311	Dyer, hand (garments/ yarn)	26422	24511	Editor/Editor-in-chief (sub-), newspaper/periodical
<b>E</b>			26342	24450	Educational Psychologist
21339	22110	Ecologist	22221	22300	Educator, midwife
21332	22113	Ecologist (forest)	51132	51130	Educator, museum
21333	22113	Ecologist (plant)	11133	11300	Elder, tribal
21331	22113	Ecologist, animal	21511	21430	Electrical-engineer, electric power (high voltage)
26313	24411	Econometrician	21512	21430	Electrical-engineer, electric traction
26311	24410	Economic advisor	21513	21430	Electrical-engineer, electromechanical equipment
26312	24410	Economic analyst	21514	21430	Electrical-engineer, illumination
26311	24410	Economist (any specialism)	31131	31130	Electrical-engineering technician (electric illumination)
26316	24410	Economist, labour	31131	31130	Electrical-engineering technician (electric power/high voltage/systems)
26416	24511	Editor, books	74112	71370	Electrician (aerial way )/UPS
26425	24510	Editor, city	74113	71370	Electrician (mine)
26416	24510	Editor, continuity			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
74114	71370	Electrician (neon-lighting)	73166	73242	Enameller (metal articles)
74115	71370	Electrician (stage, studio and theater)	73135	73133	Enameller (ornaments/jewellery)
74111	71370	Electrician, (wireman/indoor/building (electrical installation/maintenance))	73162	73241	Enameller((glass/ceramics)
74126	72412	Electrician, electrical (domestic appliances/ refrigeration and air-conditioning)	22129	22210	Endocrinologist
74121	72410	Electrician{(motor vehicle/ship/train/aircraft)}	22613	22221	Endodontist
21529	21440	Electronics-engineer (other)	21422	21420	Engineer (chief), building construction/ works
21521	21440	Electronics-engineer, computer hardware design	21492	21491	Engineer (communications/ systems, except computers)
21522	21440	Electronics-engineer, information engineering	21318	22115	Engineer (genetics)
21523	21440	Electronics-engineer, instrumentation	21445	21450	Engineer, aeronautical
21524	21440	Electronics-engineer, semiconductors	21445	21440	Engineer, aerospace
31141	31140	Electronics-engineering technician (any specialism)	21327	21490	Engineer, agricultural
81225	82232	Electroplater	21445	21450	Engineer, agricultural machines
32551	32260	Electrotherapist	21436	21490	Engineer, air pollution control
73213	73421	Electrotyper	31552	32260	Engineer, air traffic safety
42293	42220	Eligibility interviewer/ specialist	72324	72320	Engineer, aircraft maintenance: airframe
51633	51431	Embalmer	74215	72430	Engineer, aircraft maintenance: avionics
73223	82510	Embosser(paper)	72324	72320	Engineer, aircraft maintenance: engines
73232	73450	Embosser, book (hand)	26323	24422	Engineer, archaeology
75335	74361	Embroiderer	21498	21490	Engineer, biomedical
21316	22110	Embryologist	21532	21442	Engineer, broadcasting
32582	51320	Emergency medical technician	25117	21310	Engineer, business process: information technology
32583	51320	Emergency paramedic	21498	21490	Engineer, ceramics
81813	81311	Emptier, kiln/ware (ceramics)	21458	21460	Engineer, chemical
81602	82720	Emulsifier (dairy products)	21458	21460	Engineer, chemical process
			21458	21460	Engineer, chemical: petroleum and natural gas
			21429	21420	Engineer, civil

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
25125	21390	Engineer, computer: applications	35144	31210	Engineer, internet: managing websites
35125	31210	Engineer, computer: computer support	25138	21310	Engineer, internet: programming
25125	21310	Engineer, computer: systems	21429	21420	Engineer, irrigation
21498	21490	Engineer, cost: evaluation	21445	21450	Engineer, locomotive engine
35125	31210	Engineer, customer service: computer helpdesk	21445	21450	Engineer, lubrication
21411	21491	Engineer, design (except computers)	21418	21490	Engineer, manufacturing
35125	31210	Engineer, desktop support	21445	21450	Engineer, marine
21429	21420	Engineer, dredging	21498	21490	Engineer, marine salvage
21498	21490	Engineer, electric power generation: nuclear	21498	21490	Engineer, materials
21517	21430	Engineer, electrical	21445	21450	Engineer, mechatronics
21431	21490	Engineer, environmental	21466	21473	Engineer, metallurgical
21498	21490	Engineer, explosive ordnance	21418	21490	Engineer, methods
21418	21490	Engineer, food processing	21445	21450	Engineer, motors and engines: mechanical
21327	22130	Engineer, forest	21445	21450	Engineer, naval
21468	21470	Engineer, foundry	21445	21450	Engineer, naval: construction
21429	21420	Engineer, geotechnical	21498	21490	Engineer, nuclear power
21441	21450	Engineer, ground/ jet engine/	21498	21490	Engineer, nuclear power generation
21429	21420	Engineer, hydraulics	21498	21490	Engineer, optical
21429	21420	Engineer, hydrology	21458	21461	Engineer, petrochemical
21418	21490	Engineer, industrial	21458	21460	Engineer, petroleum refinery
21414	21493	Engineer, industrial efficiency/Layout	21458	21461	Engineer, pharmaceutical
21445	21450	Engineer, industrial machinery and tools	21418	21490	Engineer, planning: production
21445	21450	Engineer, internal: combustion engine	21415	21493	Engineer, plant
25138	21310	Engineer, internet: developing websites	21517	21430	Engineer, power distribution
35125	31210	Engineer, internet: helpdesk	21517	21430	Engineer, power generation
			21418	21490	Engineer, process: manufacturing
			21436	21490	Engineer, process: wastewater

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21416	21493	Engineer, production	26515	24524	Engraver (creative/ artistic)
21429	21420	Engineer, public health	73132	73131	Engraver (ornaments/jewellery moulds)
21458	21460	Engineer, refinery process	73215	73430	Engraver (picture/ printing (lithographic stone))
21498	21496	Engineer, robotics	71132	71131	Engraver (stone)
21417	21493	Engineer, safety	73161	73230	Engraver, glass
24336	34150	Engineer, sales: except ICT	73215	73430	Engraver, printing block (linoleum/rubber/wood)
24348	34150	Engineer, sales: ICT	73215	73430	Engraver, Printing (metal die/ metal plate/ metal roller/ pantograph/ photogravure)
21429	21420	Engineer, sanitary			
25223	21310	Engineer, server	26516	24520	Engraver-etcher, artistic
31512	31410	Engineer, ship (any rank)	81321	73440	Enlarger (photograph)
21429	21420	Engineer, soil mechanics	21316	22110	Entomologist
21493	21493	Engineer, spinning	42271	41222	Enumerator
81823	81620	Engineer, stationary	21336	22110	Environmental advisor
21429	21420	Engineer, structural	21433	21490	Environmental analyst
25125	21310	Engineer, systems : computer	21337	22110	Environmental consultant
21517	21430	Engineer, systems : electrical	21431	21490	Environmental engineer
21538	21440	Engineer, telegraph	21435	21490	Environmental engineer (other)
21538	21440	Engineer, telephone	22632	22290	Environmental health officer
21538	21440	Engineer, television	21338	22110	Environmental research scientist
21494	21493	Engineer, time and motion study	21339	22110	Environmentalist
21644	21412	Engineer, traffic	21318	22123	Epidemiologist
21515	21430	Engineer, transmission (electric power)	71113	71290	Erector
21495	21493	Engineer, weaving	72141	72140	Erector(derrick/ constructional steel/ structural metal/ ship beam and frame)
21416	21493	Engineer, work study	74225	74420	Erector, aerial (communication)
24324	24190	Engineer,organization and method	74225	72432	Erector, aerial (radio/television)
21451	21460	Engineer. natural gas production and distribution	71198	71295	Erector, billboard
21651	21480	Engineer. territory	72324	72320	Erector, metal airframe
31534	31432	Engineer/ Navigator( flight)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71111	71210	Erector, mud wall	24118	24110	Examiner, audit
71198	71290	Erector, prefabricated buildings	24118	24110	Examiner, bankruptcy
71273	72330	Erector, refrigeration and air conditioning equipment	21138	21130	Examiner, chemical
72336	72330	Erector-installer, agricultural machinery	33153	34170	Examiner, claims
72336	72330	Erector-installer, industrial machinery	75435	31520	Examiner, cloth
95102	91201	Errand boy	51652	33400	Examiner, driving
51132	51130	Escort, tour	75435	31520	Examiner, fabrics
26414	24510	Essayist	24118	24110	Examiner, insolvency
24123	24190	Estate planner	31215	71110	Examiner, open cut: mining
31126	31121	Estimator, civil- engineering	33524	34420	Examiner, tax
31133	31131	Estimator, electrical- engineering	43233	41332	Examiner, train
31166	31163	Estimator, (chemical) engineering	51122	51120	Examiner, travelling ticket
31143	31143	Estimator, engineering (electronics)	11207	12106	Executive (other)
31151	31150	Estimator, engineering (mechanical)	34343	51220	Executive chef
73216	73432	Etcher (colour/ half tone/ photogravure/ metal engraving)	33435	34392	Executive secretary (committee /
73161	73230	Etcher ,glass	33436	34393	Executive secretary, government administration /
82127	82830	Etcher, printed circuit board	33437	34394	Executive secretary, non-government administration)
73216	73430	Etcher, printing: metal plate	24318	24190	Executive, account: advertising
73216	73430	Etcher, printing: metal roller	24318	24190	Executive, account: marketing
26322	24421	Ethnologist	24325	24190	Executive, account: public relations
26526	24530	Ethnomusicologist	33225	34150	Executive, account: sales (except ICT, industrial, medical and pharmaceutical products)
26431	24440	Etymologist	24337	34150	Executive, account: sales (industrial products)
34132	34800	Evangelist	24348	34150	Executive, account: sales (information and communications technology)
31337	81540	Evaporator	24337	34150	Executive, account: sales (medical products)
75111	74110	Eviscerator (animal/poultry)	24337	34150	Executive, account: sales
81221	82230	Examiner (cilinders)/( metal products)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		(pharmaceuticals)	61113	61111	Farm worker, skilled (cotton/ wheat/ sugarcane/ rice,/cereal,/grain/ maize/corn) (market)
11208	12100	Executive, chief			
12126	12322	Executive, client service	62215	61511	Farm worker, skilled (fish/ oyster/ seafood/ pisciculture) (market)
13303	13170	Executive, information technology			
12211	12330	Executive, production and operations (personal care) / (cleaning)	61142	61141	Farm worker, skilled (mixed crop) (market)
31321	81630	Exhauster (assistant)	61302	61301	Farm worker, skilled (mixed farming) (market)
75145	74144	Expeller, oil	61294	61294	Farm worker, skilled (non-domesticated fur-bearing animals) (market)
21333	22113	Expert (plant protection)	61225	61221	Farm worker, skilled (poultry) (market)
21452	21461	Expert, (fiber / paper)	63102	62101	Farm worker, skilled (subsistence farming)
24236	24120	Expert, human resources			
24236	24120	Expert, outplacement	61114	61111	Farm worker, skilled (vegetable) (market)
22636	32220	Expert, radiation protection	61219	61210	Farm worker, skilled(mixed-animal husbandry) (market)n.e.c
75444	71430	Exterminator	61231	61230	Farmer (apiary, beekeeping) (market)
71332	71431	Exterminator, rodent	61223	61220	Farmer (duck/goose/turkey/(market)
81411	82311	Extruder, tread (rubber)	61219	61210	Farmer (mixed-animal)husbandry) (market)n.e.c
75363	74420	Eyeleteer ,shoe	61232	61231	Farmer (sericulture, silkworm raising) (market)
<b>F</b>			61112	61110	Farmer / Grower (vegetable) (market)
71142	71230	Fabricator, concrete stone	61121	61120	Farmer / Grower , copra(market)
24214	24190	Facilitator, quality	61121	61120	Farmer / Grower, rubber(market)
34131	32420	Faith healer	61111	61110	Farmer /grower, potato(market)
22112	22210	Family medical practitioner	61111	61110	Farmer /grower, tobacco(market)
13445	12290	Family services manager	61292	61291	Farmer( laboratory animal) (market)
92131	92111	Farm labourer (Mixed crop and livestock)	61293	61292	Farmer(bird, mammal,ostrich, reptile etc) (market)
61135	61133	Farm worker skilled (nursery, green house) (market)			
61214	61212	Farm worker, skilled (cattle, livestock) (market)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
62212	61510	Farmer(fish/ oyster/ seafood) (market)	61301	61300	Farmer, livestock and crops(market)
61121	61120	Farmer, / Grower viniculture(market)	61214	61210	Farmer, livestock: market production
61213	61210	Farmer, astrakhan	61111	61110	Farmer, maize( market )
61214	61210	Farmer, cattle: market	63103	62100	Farmer, maize: subsistence farming
63204	62100	Farmer, cattle: subsistence	61214	61210	Farmer, milk(market)
61111	61110	Farmer, cereal( market )	63103	62100	Farmer, mixed crops subsistence farming
61223	61220	Farmer, chicken(market)	61301	61300	Farmer, mixed farming(market)
63103	62100	Farmer, corn: subsistence farming	61301	61300	Farmer, mixed: market production
61111	61110	Farmer, cotton( market )	63301	62100	Farmer, mixed: subsistence, crop and livestock
61214	61210	Farmer, cowherd: market	61214	61240	Farmer, mixed-animal: market production
61293	61290	Farmer, crocodile(market)	63204	62100	Farmer, mixed-animal: subsistence farming
61211	61210	Farmer, dairy(market)	61294	61290	Farmer, non-domesticated animals(market)
61223	61220	Farmer, egg production(market)	61294	61210	Farmer, pelt: non-domesticated animals(market)
63103	62100	Farmer, field: crops (subsistence farming)	61214	61210	Farmer, pig: market production
63104	62100	Farmer, field: vegetable (subsistence farming)	63204	62100	Farmer, pig: subsistence farming
61291	61290	Farmer, fur (non-domesticated animals) (market)	61223	61220	Farmer, poultry(market)
61214	61210	Farmer, fur: domestic animals(market)	61214	61210	Farmer, ranch(market)
63204	62100	Farmer, goat: subsistence farming	61111	61110	Farmer, rice(market)
61214	61210	Farmer, goat:, market	63103	62100	Farmer, rice: subsistence farming
61111	61110	Farmer, grain( market )	63204	62100	Farmer, sheep: subsistence farming
63103	62100	Farmer, grain: subsistence farming	61214	61210	Farmer, stud(market)
61111	61110	Farmer, groundnut( market )	63101	62100	Farmer, subsistence farming
63103	62100	Farmer, groundnut: subsistence farming	63104	62100	Farmer, vegetable: subsistence farming
61214	61210	Farmer, horse: breeding(market)	61111	61110	Farmer, wheat( market )
61214	61210	Farmer, horse: raising(market)			
61293	61290	Farmer, kangaroo(market)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
63103	62100	Farmer, wheat: subsistence farming	72111	72110	Fettler, metal
61132	61131	Farmer/ Grower (nursery, bulb, seed, mushroom, spice, carnation, market)	31423	22130	Field assistant, agriculture
61121	61121	Farmer/ Grower (Shrub crop, tree crop, fruit, tea, nut, orchard, cocoa, hop ) (market)	61118	61110	Field man(market)
61121	61120	Farmer/ Grower, coconut (market)	34213	34750	Fighter
61121	61120	Farmer/ Grower, coffee(market)	44115	41410	Filer, library
61121	61120	Farmer/ Grower, vineyard (market)	72242	72241	Filer-hand
61213	61211	Farmer/Breeder (cattle, grazier, horses, livestock, sheep, dog, fur/pelt/cat), : market production	73135	73133	Filler ,lac
61111	61110	Farmer/grower , groundnut(market)	93341	93330	Filler(stock)
61111	61110	Farmer/grower , soya-bean(market)	81833	82900	Filler, bottle
61111	61110	Farmer/grower , sugar-beet(market)	93343	93330	Filler, day
61111	61110	Farmer/grower, alfalfa(market)	93343	93330	Filler, evening
61111	61110	Farmer/grower, crop: field crops(market)	81894	82900	Filler, gas
61111	61110	Farmer/grower, flax(market)	93343	93330	Filler, night
61141	61140	Farmer/grower, mixed crops(market)	93343	93330	Filler, shelf
72211	72210	Farrier	75116	74112	Filleter, meat/fish
73221	73413	Feeder (paper/ printing press)	24121	24110	Financial advisor
81213	81222	Feeder (corrugate iron)	24131	24112	Financial analysts
22403	32210	Feldscher	24116	24110	Financial controller
62106	61411	Feller (logging) (market)	24124	24110	Financial planner
75353	74410	Fellmonger	73141	73210	Finisher
83501	83400	Ferryboat man	73154	73221	Finisher (glass)
73141	73210	Fettler pottery finisher	72242	72241	Finisher (tools/ cutting tools)
			81512	82610	Finisher ,attendant (jute)
			73231	73450	Finisher ,book
			81512	82610	Finisher ,card tenter (cotton)
			73135	73133	Finisher ,ornaments/ jewellery
			73218	73434	Finisher ,plate(photo-engraving)
			75363	74420	Finisher shoe
			72244	72243	Finisher(cast metal articles)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71134	71134	Finisher(stone)	54115	51610	Firewoman, aircraft accidents
73188	73321	Finisher, (leather products)	54115	51610	Firewoman, fighting fires
81422	82320	Finisher, (plastics)	54115	51610	Firewoman, forest
71142	71230	Finisher, Concrete/cement	96241	91620	Firewood collector
72226	72220	Finisher, die	62247	61540	Fisher, seal(market)
75221	74220	Finisher, furniture (wood)	63404	62100	Fisher, subsistence
82197	82860	Finisher, luggage	62224	61520	Fisherman (inland waters) (market)
75494	73220	Finisher, optical lens	62244	61541	Fisherman(market)
81711	81430	Finisher, paper	62222	61520	Fisherman, coastal waters(market)
75367	74420	Finisher,harness	62231	61530	Fisherman, deep-sea(market)
75356	74412	Finisher,pelt	63404	62100	Fisherman, subsistence
31194	31513	Fire investigator	63404	62100	Fisherwoman, subsistence
54111	51610	Fire sergeant	54194	51695	fishery assistant)
54111	51610	Fire-fighter	62225	61522	Fishery worker, skilled (coastal waters) (market)
54112	51610	Fire-fighter (aircraft accidents)	62233	61531	Fishery worker, skilled (deep- sea) (market)
54113	51610	Fire-fighter (forest)	62226	61523	Fishery worker, skilled (inland) (market)
54111	51610	Fireman	13123	12210	Fishing operations manager
81213	81221	Fireman (metal melting)	75116	74112	Fishmonger
31341	81550	Fireman (petroleum refining)	32591	51320	Fitter (artificial limb)
54115	51610	Fireman, aircraft accidents	72324	72320	Fitter ,engine(aircraft)
31331	81520	Fireman, chemical and related processes	72317	72310	Fitter ,engine(motor vehicle)
54115	51610	Fireman, fighting fires	74121	72410	Fitter / Electrician,UPS
54115	51610	Fireman, forest	74211	72420	Fitter( radar signaling system)
81606	82760	Fireman, kiln (sugar)	74211	72420	Fitter(equipment/ meteorological equipment)
83114	83110	Fireman, locomotive	74127	72412	Fitter(generator/magneto/motor/ dynmo/ electrical pipe)
81817	81392	Fireman, oven/ (brick and tile)	73188	73321	Fitter, (leather products)
81812	81312	Fireman, pottery oven			
81822	81621	Fireperson (steam engine (railway)/ boiler plant/ ship (oil))			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
71251	71350	Fitter, (plate-glass)	72336	72330	Fitter, stationary: engine
32142	32260	Fitter, artificial limb	72336	72330	Fitter, train engine
82116	82810	Fitter, bench: trucks	72315	72310	Fitter, tyre
72111	72110	Fitter, box (moulding)	72331	72331	Fitter, woodworking/ turbine/ weaver beam
72315	72310	Fitter, diesel: road transport	74121	72410	Fitter{(motor vehicle/ ship/ train/aircraft)
71268	71360	Fitter, duct	72325	72320	Fitter-assembler, airframe
72331	72331	Fitter, earth-moving equipment/ industrial machinery )	71122	71221	Fixer
74126	72412	Fitter, electrical (domestic appliances/ refrigeration and air- conditioning)	71113	71290	Fixer prefabricated buildings
74127	72412	Fitter, electrical (electrical meter/ switchboard/ switchgear/ transformer/ rheostat	71157	71243	Fixer(wood)
74124	72412	Fitter, electrical (elevator and related equipment)	71251	71350	Fixer, (plate-glass/ lead-Light)
74125	72412	Fitter, electrical (instruments/ signaling equipment)	71268	71360	Fixer, duct
74211	72420	Fitter, electronics (audio-visual equipment)	71254	71350	Fixer, glass (buildings)
74221	72420	Fitter, electronics equipments (information &communications)	81527	74320	Fixer, loom
72336	72330	Fitter, engine: marine	71234	71330	Fixer, plasterboard
72315	72310	Fitter, engine: motor vehicle	71216	71310	Fixer, roof
72336	72330	Fitter, engine: steam	71143	71232	Fixer, steel (reinforced concrete)
72331	72331	Fitter, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile	83122	83121	Flagman
72336	72330	Fitter, machine-tool	72123	72122	Flame cutter
73123	73122	Fitter, musical instrument	73154	73221	Flatter/ (glass)
72336	72330	Fitter, plant maintenance	26528	24530	Flautist
73111	73110	Fitter, precision instrument	75166	74160	Flavourer, tobacco
32142	32260	Fitter, prosthesis	75114	74111	Flayer
75363	74420	Fitter, shoe	62242	61540	Flense(market)
71158	71240	Fitter, shop	75354	74411	Flesher /dehairer( hide)
			75354	74411	Flesher,pelt
			43234	41333	Float master
			81128	81122	Floatation worker, minerals
			34353	34710	Floor manager (broadcasting)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
61136	22130	Floriculturist(market)	81608	82780	Foreman, brewing
75495	52200	Florist, arranging flowers	81812	81312	Foreman, burner (brick and tile)
52215	13140	Florist, operating a shop	75221	74220	Foreman, cabinet maker
75363	74420	Folder shoe	71157	71242	Foreman, carpenter(ship &boat)
34215	34750	Footballer	81817	81391	Foreman, clay mixing (mechanical))
21122	21121	Forecaster, weather	75221	74227	Foreman, coach-body builder
73142	73210	Foreman (clay preparation/ clay shop)	73211	73410	Foreman, composer room (printing)
81602	82720	Foreman (dairy products)	81609	82790	Foreman, drying machine (tobacco)
73152	73220	Foreman (glass blowers)	74128	72412	Foreman, electrical
73155	73221	Foreman (glass grinding)	74116	71370	Foreman, electrician
72123	72122	Foreman (lead burner)	74212	72420	Foreman, electronics (audio-visual equipment)
31342	81550	Foreman (natural gas plant/tower/treating and pumping) (petroleum refining)	81134	81131	Foreman, field (petroleum production)
74222	74430	Foreman (radio mechanic/television mechanic)	81606	82760	Foreman, filtration (sugar)
81527	82621	Foreman (warping/ knitting)	81812	81310	Foreman, formingdepartment
81817	81392	Foreman , press operation (mechanical/ brick and tile)	81812	81310	Foreman, glass melting
81431	82530	Foreman ,paper products	74224	72442	Foreman, installation (telephone and telegraph)
81421	82320	Foreman ,plastic products	75352	74410	Foreman, leather(beam/hide house)
72215	72213	Foreman(die casting)	74131	72451	Foreman, line (electrical)
71261	71360	Foreman(plumber)	74226	72451	Foreman, line (telephone/telegraph)
72215	72213	Foreman(wire drawer)	72238	82110	Foreman, machine shop
75212	74212	Foreman(wood preserving/ treating)	72238	82110	Foreman, machine tool operator
81411	82310	Foreman, rubber	81606	82760	Foreman, melt house(sugar)
72132	72131	Foreman, (boiler maker	81606	82760	Foreman, mill platform(sugar)
72111	72110	Foreman, (moulding)	81603	82730	Foreman, miller (grain)
81714	81420	Foreman, (pulp plant)	81817	81390	Foreman, mixing glass
73233	73450	Foreman, bookbinding	81812	81310	Foreman, mold makers
81812	81310	Foreman, bottle machine	81812	81310	Foreman, mold shop

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81831	82900	Foreman, packing	72212	72211	Forger
81134	81131	Foreman, petroleum production	72216	72210	Forger, drop
71262	71360	Foreman, pipelines	72214	72213	Former, metal (manual)
73143	73210	Foreman, press operation (manual) (brick and tile)	72238	82111	Former, metal (mechanical)
81606	82760	Foreman, pulphouse (sugar)	72215	72213	Former, pig machine (iron and steel)
81606	82760	Foreman, refining (sugar)	75312	74331	Former, wool/felt (hood)
31326	81634	Foreman, refrigeration (water treatment)	51612	51520	Fortune-teller
81411	82310	Foreman, rubber goods	73231	73450	Forwarder ,bookbinding
81812	81310	Foreman, sheet glass	71158	71240	Framer
81812	81310	Foreman, sheet glasscutting	81512	82610	Framer ,sett(silk)
72131	72130	Foreman, sheet-metal	91125	91321	Frash
81525	82620	Foreman, spinning	95104	91200	Free newspaper distributor
73183	74320	Foreman, weaving (carpet/textile/ leather products/bleaching/ wool sorting and grading)	93331	93330	Freight handler
72121	72120	Foreman, welding (general/rail road)	34135	34800	Friar
81525	82620	Foreman, winding and twisting	75412	72160	Frogman
75352	74410	Foreman,leather(finishing room/split and drum room /tan room)	75412	72160	Frogman, salvage
81518	82611	Foreman,winding & twisting (textile)	75412	72160	Frogwoman
81518	82611	Foreman.spinning(textile)	73158	73220	Froster, glass sandblasting
31432	32120	Forest , assistant	83327	83240	Fueller, aircraft
62107	61412	Forest officer(market)	75441	71430	Fumigator
62105	61410	Forester(market)	81215	81221	Furnace-operator (cupola furnace)/ die casting)
92151	92120	Forestry labourer	81215	81221	Furnace-operator hydraulic forging/ malleable casting)
62108	61420	Forestry worker, skilled (charcoal burning/ wood distillation (traditional techniques) (market)	81218	81213	Furnace-operator refining,(non-ferrous metal)
72212	72211	Forge hammer, forging-press	81215	81221	Furnace-operator( extrusion (metal)/ forge/ hot mill)
			81215	81221	Furnace-operator( reheating (metal)
			81812	81310	Furnace-operator, glassproduction

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81216	81230	Furnace-operator, heat-treating / annealing / hardening (metal)	31345	81551	Gasman, natural gas
81812	81310	Furnace-operator, lehr	81512	82610	Gasser (yarn)
81215	81220	Furnace-operator, melting	73185	74312	Gasser(cotton/silk)
31325	81633	Furnace-operator, refuse disposal	22129	22210	Gastroenterologist
81812	81310	Furnace-operator, smelting(glass)	73158	73220	Gatherer, glass
81812	81310	Furnace-operator, tempering (glass)	92161	92130	Gatherer, seaweed
81218	81212	Furnace-operator, (refining, steel(oxygen furnace))	92161	92130	Gatherer, shellfish
81812	81310	Furnace-operator,annealing (glass)	63405	62100	Gatherer, subsistence
81218	81224	Furnace-operator,puddling	72111	72110	Gauge man(moulding)
75315	74342	Furrier	31347	81551	Gauger
26335	24430	Futurologist	21148	21142	Gemmologist
<b>G</b>			26334	24433	Genealogist
	81225	82232	62101	13112	General manager (forestry) (market)
	34215	34750	61221	13110	General manager (poultry) (market)
	75114	74111	61116	13110	General manager, agriculture/ farm(market)
	62246	61543	62221	13114	General manger (fishery) (market)
	51646	61290	93297	93222	General worker, leaf department (tobacco)
	72211	72210	01100	01100	General, army
	54132	51630	13221	12220	General-manager
	26196	24290	61131	13110	General-manager ( nursery) (market)
	92142	61130	13304	13160	General-manager (assistant) , telecommunications
	61133	61130	13231	13130	General-manager (Construction)
	63105	62100	13246	12261	General-manager (storage), production and operations warehouse/ stores
	61133	61130	14112	13151	General-manager, boarding-house/ hostel
	71268	71360	14118	13153	General-manager, camping site/ caravan park
	81211	81211			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
14312	13190	General-manager, cultural activities	21148	21142	Geologist, engineering
14113	13151	General-manager, guest-house/ lodging-house	21147	21141	Geomagnetician
13421	13192	General-manager, health	21147	21141	Geomorphologist
14114	13151	General-manager, hotel /inn/ motel	21148	21142	Geophysicist (any specialism)
13303	13160	General-manager, information technology	21148	21142	Geotechnologist
13211	13120	General-manager, manufacturing	22644	32260	Geriatric physical therapist,
12191	12270	General-manager, production and operations (business services)	22129	22210	Geriatrician
12192	12280	General-manager, production and operations (personal care) / (cleaning)	73231	73450	Gilder ,edge(bookbinding)
14201	12240	General-manager, production and operations (retail trade)	81512	82610	Giller
13241	12260	General-manager, production and operations (transport)	81512	82610	Ginner
14202	12241	General-manager, production and operations (wholesale trade)	96218	91510	Girl, messenger
14313	13193	General-manager, recreation	21142	21140	Glaciologist
13442	13194	General-manager, social work	71252	71350	Glazier (any type of glass)
14314	13195	General-manager, sporting activities	81721	81411	Gluer, veneer sheet
14391	13196	General-manager, travel agency	34215	34750	Goal keeper
21318	22115	Geneticist	61214	61210	Goatherd(market)
21318	22115	Geneticist (animal)	63205	62100	Goatherd: subsistence farming
21318	22110	Geneticist, molecular	73131	73130	Gold smith
91111	91310	Gentleman's man	34215	34750	Golfer
21148	21142	Geochemist	93128	93123	Gore kun (grave digger)
21147	21141	Geodesist	53114	51310	Governess, children
26325	24424	Geographer, any specialism	11121	11200	Governor (deputy) State Bank
21148	21142	Geohydrologist	13496	12290	Governor, prison
21141	21140	Geologist (any specialism)	11113	11106	Governor, state
			11111	11100	Governor-General
			75151	74150	Grader ( food/ meat/ oil/ vegetable/ fruit/ cocoa/coffee) (hand)
			71132	71131	Grader (stone)
			75315	74340	Grader ,fur

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75351	74410	Grader( hide/skin)	72155	72150	Grip
75161	74160	Grader(tobacco)	52216	13140	Grocer
75363	74420	Grader) (sole/uppers)	92127	92110	Groom, horse
73187	74310	Grader, fibre: textile	92127	92111	Groom,stud
75368	74420	Grader, footwear: soles	61136	61133	Ground keeper(market)
75353	74410	Grader, pelt	61133	61130	Groundsman(market)
75435	31520	Grader, products	61132	61130	Grower, flower(market)
75435	31520	Grader, textile	61121	61120	Grower, grape(market)
75166	74160	Grader, tobacco	61132	61130	Grower, horticultural(market)
75211	74210	Grader/ Seasoner/ Impregnator/ Treater(wood)	61132	61130	Grower, osier(market)
61124	61120	Grafter fruit tree(market)	61132	61130	Grower, reed(market)
61124	61120	Grafter, shrubs(market)	61132	61130	Grower, rose(market)
93292	93221	Grainer (zinc)	61132	61130	Grower, seeds: nursery(market)
73219	73434	Grainer, photogravure (printing plates)	61132	61130	Grower, spices: nursery(market)
26435	24444	Graphologist	61132	61130	Grower, tulip(market)
61214	61210	Grazier(market)	63104	62100	Grower, vegetable: subsistence
61133	61130	Greenkeeper(market)	61132	61130	Grower, vegetables: nursery(market)
73154	73221	Grinder (glass)	61121	61120	Grower, vine(market)
72241	72240	Grinder (metal)/ wheel- (metal)	61121	61120	Grower, wine(market)
73155	73221	Grinder(precision)	83123	83124	Guard ( goods train)
71134	71134	Grinder(stone/slate)	54141	51690	Guard (art gallery/museum/ studio/ plant protection (industrial)
75127	74120	Grinder, chocolate	54131	51630	Guard (prison)
73158	73220	Grinder, glass edge	54141	51690	Guard (security)
75496	73220	Grinder, glass lens	54197	51690	Guard, beach
81512	82610	Grinder, roller (textile)	33513	34410	Guard, border
75166	74160	Grinder, snuff	54197	51690	Guard, crossing
72246	72240	Grinder, textile carding machine	44124	41423	Guard, mail
72246	72240	Grinder, tool			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
54123	51622	Guard, police force	75125	74121	Halwai
51124	51120	Guard, train: passengers	72213	72212	Hammersmith, (spring/ knife/ tool/ bulldozer)
51133	51130	Guide, discovery	73138	73130	Hammersmith, precious-metal articles
51133	51130	Guide, industrial establishment	94122	91324	Hand dish washer
51131	51131	Guide, museum/art gallery/ factory etc.	93213	93220	Hand packing
51133	51130	Guide, nature park	83506	83400	Hand, cable-ship
34234	34750	Guide, outdoor adventure	93292	93221	Hand, cannery
51133	51130	Guide, safari	96224	91510	Hand, cellar: hotel
51133	51130	Guide, sightseeing	96224	91510	Hand, cellar: restaurant
51133	51130	Guide, theme park	93291	93220	Hand, cellar: wine production
51133	51130	Guide, tour	83501	83400	Hand, deck
51133	51130	Guide, tourist	93291	93220	Hand, factory
51133	51130	Guide, travel	92122	92111	Hand, farm (livestock/ fur-bearing animals/ dairy )
23541	23590	Guitar/ Piano/ Violin teacher	92114	92110	Hand, farm: cotton picking
26523	24532	Guitarist	92114	92110	Hand, farm: field crops
83434	83336	Gunner (crane)	92114	92110	Hand, farm: fruit picking
72225	72222	Gunsmith	61214	92110	Hand, farm: milch(market)
51633	51431	Gussal	61214	92110	Hand, farm: milking(market)
22697	32260	Gymnast, remedial	92114	92110	Hand, farm: orchard
34213	34750	Gymnast, sport	92127	92110	Hand, farm: silk worms
22124	22210	Gynecologist	61302	61300	Hand, farm: skilled (mixed livestock and crops) (market)
<b>H</b>			92114	92110	Hand, farm: tea plucking
26361	24600	Hafiz	83506	83400	Hand, ferry
51412	51410	Hair care specialist	92145	92110	Hand, garden
51411	51410	Hairdresser	92112	92110	Hand, harvest
51411	51410	Hairstylist	92145	92110	Hand, nursery: horticulture
22302	32290	Hakim	94112	51220	Hand, pizza

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
92145	92110	Hand, plant nursery	71317	71414	Hanger, wallpaper
61214	92110	Hand, ranch(market)	81217	81232	Hardener (metal)
93292	93221	Hand, shuttle	26523	24532	Harpist
92127	92110	Hand, stable	62242	61540	Harpooner(market)
75127	74120	Hand, table: bread	62213	61510	Hatcher, fish(market)
75127	74120	Hand, table: flour confectionery	61226	61221	Hatcher-breeder, poultry(market)
83506	83400	Hand, tug	62216	61511	Hatchery worker, skilled (fish) (market)
73171	73310	Handicraft worker, basketry	61227	61221	Hatchery worker, skilled (poultry) (market)
73195	73315	Handicraft worker, candlemaking	75316	74340	Hatter
73181	73320	Handicraft worker, hand (garments/ garment knitting/textiles)	93112	93110	Hauler (mining)
73188	73321	Handicraft worker, hand (leather products)	54121	51620	Hawaladar
73188	73322	Handicraft worker, hand(carpets)	95201	91120	Hawker
73191	73311	Handicraft worker, paper articles	52121	91110	Hawker (food)
73172	73310	Handicraft worker, reed weaving	11111	11100	Head of State
73194	73312	Handicraft worker, stone articles	11129	11200	Head, chancery
73173	73310	Handicraft worker, straw articles	13454	12294	Head, college faculty
73174	73313	Handicraft worker, wooden articles	11129	11200	Head, government department
93341	93330	Handler (stock )	11129	11200	Head, permanent: government department
93337	93330	Handler, baggage	13455	12294	Head, university faculty
94113	51220	Handler, food: fast food	11131	11301	Head, village
93291	93220	Handler, material: manufacturing	72238	82111	Header, bolt
73148	73210	Handler, pottery	81111	81110	Header, main (mining)
96225	91620	Handyman	24237	24120	Headhunter
93132	93130	Handyman (building maintenance)	13456	12294	Headmaster/mistress, kindergarten
96225	91620	Handyperson	13457	12294	Headmaster/mistress, primary school
96225	91620	Handywoman	13452	12290	Head-teacher



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
32300	32410	Healer (drugless treatment/herbal/village)	11123	11100	Home secretary
32523	41430	Health information clerk	22301	32290	Homeopath
32145	73110	Hearing aid Technician	72238	82113	Honer, cylinder
81214	81221	Heater, hot rolling mill	93328	93322	Horse driver ,road transport
21311	22120	Helminthologist	51646	61290	Horse-breaker
92112	92110	Helper (farm)	92143	61130	Horticultural labourer
91114	91310	Helper ,domestic (parlour /kitchen)	61136	61134	Horticultural worker, skilled(market)
72145	72144	Helper(ship plater's)	31421	32120	horticulture/ floriculture/ pomology/ arboriculture/soil science)
53227	51330	Helper, aged care	61136	22130	Horticulturist(market)
53227	51330	Helper, companion	42292	42220	Hospital admissions clerk
94124	91310	Helper, domestic (parlour/kitchen)	33443	34310	Hospital ward secretary
92132	92110	Helper, farm	51691	51491	Host (club)
53227	51330	Helper, home: caring for aged or infirm	51111	51110	Host(ess), air crew/airport//bus/train
53125	51310	Helper, pre-school	52434	91130	Host, party plan
53125	51310	Helper, teacher's	26565	34720	Host, talk show
22125	22210	Hematologist	52434	91130	Hostess, party plan
32303	32410	Herbalist	26565	34720	Hostess, talk show
22305	32410	Herbalist, chinese medicine	42242	42220	Hotel front desk clerk
21311	22120	Herpetologist	91113	91310	Houseboy
21316	22111	Histologist (plant)	26351	24460	Housefather /mother (professional)
21316	22110	Histologist, animal	34127	34604	Housefather/mother/ community/ cultural centre) (associate professional)
26332	24431	Historian (any specialism)	51521	51210	Housekeeper (domestic)
93131	93130	Hoddie	51511	51210	Housekeeper (hotel/ executive)
83433	83331	Hoist-operator ((construction)/ (mine)/ (tugger))	91113	91310	Housemaid
72146	72145	Holder up(rivets)	34124	34601	Housemaster, approved school (associate professional)
73223	82510	Holder, section (priming)	26357	24460	Housemaster, professional: approved school
53222	51330	Home birth assistant			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26357	24460	Housemistress, professional: approved school	21317	22114	Immunologist
62244	61541	Hunter (seal) (market)	22129	22210	Immunologist, clinical
62242	61540	Hunter (whale) (market)	26597	24550	Impersonator
62241	61542	Hunter(market)	73211	73410	Imposer
63401	62100	Hunter-gatherer	73211	73410	Impostor
21318	22110	Hydro biologist	75215	74210	Impregnator, wood
91295	91320	Hydro blaster, cleaning	26545	12295	Impresario
91295	91320	Hydro blaster, graffiti removal	14125	13152	In charge, canteen
21115	21114	Hydro dynamicist	75433	31526	In charge, quality control
21123	21122	Hydro grapher	14122	13150	In charge, restaurant
21126	21120	Hydro meteorologist	42231	42230	In charge, telex
32552	32260	Hydro therapist	54142	51690	Incharge, (security/ watch and ward)
21148	21142	Hydrogeologist	26418	24510	Indexer
21142	21140	Hydrologist	31393	81720	Industrial robot controller
21148	21142	Hydrometrist	03100	01100	Infantryman, army
			03100	01100	Infantrywoman, army
32514	32250	Hygienist, dental	73221	73413	Inker
22636	31520	Hygienist, occupational	75224	74227	Inlayer, marquetry
32514	32250	Hygienist, oral	14115	13151	Innkeeper
22309	32410	Hypnotherapist	32405	32271	Inseminator/Technician, artificial insemination
26592	34744	Hypnotist	32574	31520	Inspector (anti malaria/ drug/ safety and health (child care)/complaint control
<b>I</b>			33551	34500	Inspector (assistant/sub) police
21317	22112	Ichthyologist	33512	34411	Inspector (border/customs)
26593	34742	Illusionist	31134	31131	Inspector (chief), electric
31183	31181	Illustrator (engineering/geological/ technical)	33591	34491	Inspector (civil service/government administration
21665	34712	Illustrator, advertising/book			
26361	24600	Imam	75431	31520	Inspector (complaint control )
26592	34744	Imitator			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
33522	34420	Inspector (excise and taxation/income tax/tax)	43237	41310	Inspector, clerical: railway transport (service)
54194	51695	Inspector (game/wild life/ bird sanctuary)	43237	41310	Inspector, clerical: road transport (service)
96231	91531	Inspector (meter)	31174	31520	Inspector, coal
75431	31523	Inspector (post offices )	13244	12263	Inspector, commercial (railways)
75431	31525	Inspector (quality (fabrics))	24118	24110	Inspector, cooperative societies
31157	31522	Inspector (rail road car/ quality (mechanical products))	33557	34500	Inspector, detective
75431	31524	Inspector (rationing)	75436	31520	Inspector, electrical products
32571	32220	Inspector (sanitary/ public health)	75436	31520	Inspector, electronic products
74117	71370	Inspector (street light)	11129	11282	Inspector, explosives
81822	81623	Inspector , loco (fuel)	31128	31511	Inspector, fire
43232	41331	Inspector ,railway transport service	33595	34390	Inspector, fisheries
43232	41331	Inspector ,traffic investigation	33595	34390	Inspector, forestry
75435	31525	Inspector and tester, electrical and electronic products	33541	34440	Inspector, licensing
11122	11210	Inspector -general, (asstt)( Police Services)	31145	31525	Inspector, line (telephone/telegraph)
75431	31520	Inspector( labour & welfare)	72333	72332	Inspector, locomotive repair
75431	31522	Inspector( loco and carriage	33591	34491	Inspector, marketing/ price/ rates (claims)
75431	31526	Inspector( quality (any other specialism)	22501	22230	Inspector, meat
54142	51690	Inspector(security)	31178	31522	Inspector, mining
21441	21450	Inspector, aero engines	31174	31171	Inspector, oil pipe
33595	34390	Inspector, agricultural	33531	34430	Inspector, pensions
11129	11282	Inspector, boilers	32575	31520	Inspector, pollution
11129	11282	Inspector, boundary	32575	31520	Inspector, product safety
31128	31510	Inspector, building	75436	31520	Inspector, products (except food and drinks)
33151	34170	Inspector, claims (insurance)	31147	31520	Inspector, quality: electronic products
43232	41331	Inspector, clerical (road transport service)	24214	31520	Inspector, quality: services
			11129	11282	Inspector, railways
			33552	34500	Inspector, ranger police

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31135	31522	Inspector, safety and health (electricity)	11123	11220	Inspector, Secretariat & Managing Services
32575	31520	Inspector, safety and health: consumer (protection)	11124	11230	Inspector, Educational Services
32575	31520	Inspector, safety and health: establishments	74223	72442	Installer (telephone/telegraph/computer)
32575	31520	Inspector, safety and health: factories	71158	71240	Installer, door
32575	31520	Inspector, safety and health: industrial (waste-processing)	71268	71360	Installer, drain
32575	31520	Inspector, safety and health: labour	71268	71360	Installer, duct
32575	31520	Inspector, safety and health: pollution	74121	72412	Installer, Electrical meter
32575	31520	Inspector, safety and health: shops	82116	82810	Installer, engine
32575	31520	Inspector, safety and health: working conditions	71253	71350	Installer, glass (vehicles)
31174	31520	Inspector, safety: mines	71257	71350	Installer, glazing
23515	23520	Inspector, school	71245	71340	Installer, insulation
43233	41332	Inspector, shed	71235	71330	Installer, plasterboard
23516	23520	Inspector, special institutions	71198	71290	Installer, pool
35219	31320	Inspector, telegraphic traffic	71274	72330	Installer, refrigeration and air conditioning equipment
51125	51120	Inspector, ticket: public transport	71268	71360	Installer, septic tank
33591	34491	Inspector, wage/ weights and measures)	35125	31210	Installer, software
96133	91620	Inspector, platform (cleanliness)	71245	71340	Installer, sound-proofing
11121	11200	Inspector, Audit & Accounts, Services, Insurance & Financial Banking)	71158	71240	Installer, window: frame
11129	11280	Inspector, Engineering & Other Service	71257	71350	Installer, window: glazing
11126	11251	Inspector, Judiciary and District Administration	34221	34751	Instructor (billiards/bridge)
11127	11260	Inspector, Medical Services	34231	34751	Instructor (physical training/sports)
11128	11270	Inspector, Research, Monitoring & Evaluation Services	51651	33403	Instructor, sailing/driving
11125	11240	Inspector, (foreign services	34221	34751	Instructor (rifle/sports/chess)
			34231	34750	Instructor, aerobics
			23203	23200	Instructor, automotive technology
			23526	33300	Instructor, Braille
			11124	11232	Instructor, chief (government official)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
23106	23103	Instructor, civil defence training	26433	24442	Interpreter
23203	23200	Instructor, cosmetology	51134	51130	Interpreter, historical
23555	33400	Instructor, dance	51134	51130	Interpreter, science
23105	23100	Instructor, extension work	73216	73410	Intertype operator
34231	34750	Instructor, fitness	42271	41222	Interviewer
31536	33400	Instructor, flying	24235	24122	Interviewer, employment
34231	34750	Instructor, horse riding	42274	41900	Interviewer, market research
34128	34600	Instructor, life skills	26562	34720	Interviewer, media
23107	23103	Instructor, military science	42274	41900	Interviewer, public opinion
34231	34750	Instructor, recreation	42274	41900	Interviewer, survey
34222	34750	Instructor, ski	34111	34503	Investigator) private
23201	23201	Instructor, technical training	33557	34500	Investigator, police
34231	34750	Instructor, underwater diving	24122	24110	Investment advisor
23203	23200	Instructor, vocational education	24132	24190	Investment consultant
23202	23100	Instructor, vocational training	53126	51310	Invigilator
31122	31120	Instrument man, surveying	91213	91331	Ironer(hand)
26526	24530	Instrumentalist	61115	61111	Irrigation worker,
71244	71341	Insulator worker (refrigeration and air-conditioning equipment)	43213	41311	skilled(market) Issuer, fuel / store/ tool/ material
71243	71341	Insulator worker((boiler and pipe)	<b>J</b>		
71241	71340	Insulator worker(acoustical)	71198	71290	Jack, steeple
71242	71340	Insulator worker(building)	91125	91325	Jamadar
23531	33400	Intensive language teacher	51531	91410	Janitor (apartment house/ building)
22118	22210	Intern, medical	71322	71422	Japanner (painter)
22129	22210	Intern, medical: in specialist training	73131	73130	Jeweller
22626	22240	Intern, pharmacy	72226	72220	Jig maker
22505	22230	Intern, veterinary	73146	73211	Jiggerer/jollier, pottery and porcelain
25134	21310	Internet developer	33112	34111	Jobber, stock
13307	12260	Internet service provider	34211	34750	Jockey

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26597	34740	Jockey, disc	51642	61293	Keeper (animal/ game/ zoo/ aviary)
73228	82510	Jogger, web press	54147	91523	Keeper ,gate
71158	71240	Joiner	81211	81211	Keeper, general((blast furnace)
71151	71240	Joiner (construction)	34215	34750	Keeper, goal
71156	71242	Joiner, (aircraft,ship,banch)	61133	61130	Keeper, green(market)
82193	82842	Joiner, ply (rubber)	44113	41411	Keeper, negative and plate
93294	93223	Joiner, thread (rubber)	41102	41902	Keeper, record
74223	72451	Jointer ,cable	52216	13140	Keeper, shop
74223	72451	Jointer ,cable, (telephone/telegraph)	61217	61214	Kennel worker, skilled(market)
74132	72451	Jointer, cable(electrical)	81608	82781	Kettleman, malt liquor
71268	71360	Jointer, pipe-laying	53223	51330	Khadim
73148	73210	Jollier, pottery and porcelain	96131	91620	Khakrob
26424	24513	Journalist (any medium)	91124	91325	Khalasi (personal services/ survey)
34313	31310	Journalist, photo	93212	93220	Khamali
34224	34753	Judge ,sports	26361	24600	Khatib
26121	24220	Judge, (civil/ district court / high court/ supreme court/ other)	52121	91110	Khokhewalas
72157	72150	Jugalie,rig(oil)	75153	74153	Kibbler, (cocoa-bean)
26591	34740	Juggler	93298	93221	Kierman (bleaching)
34216	34750	Jumper ,show	31333	81520	Kiln/ Furnace ((-operator) (cement (production/ manufacturing)
26114	24290	Jurisconsult	31333	81520	Kiln/ Furnace(electrode baking/ chemical and related processes)
26194	24294	Jurist, except lawyer or judge	81721	81410	Kiln-operator (wood seasoning)
26114	24290	Jurist, lawyer	81813	81313	Kiln-operator, brick and tile (any type)
26121	24220	Justice , high court/ supreme court/ other	31339	81590	Kiln-operator, charcoal production/ coke (retort kiln)
34117	34320	Justice of the Peace	81813	81310	Kiln-operator, float-glass bath
41318	41110	Justowriter	81608	82784	Kiln-operator, malting (spirits)
			81813	81312	Kiln-operator, pottery and porcelain
<b>K</b>					
26412	24510	Katib			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21311	22120	Kinesiologist	92111	92110	Labourer, farm (casual/seasonal)
94121	91323	Kitchen assistant	92112	92110	Labourer, farm (field crops)
94121	91323	Kitchen hand	92115	92110	Labourer, farm: cotton
94121	91323	Kitchen helper	92134	92110	Labourer, farm: livestock and crops
75114	74111	Knacker	92165	92130	Labourer, fish farm
73175	74240	Knitter(chair)	92162	92131	Labourer, hunting
73186	74322	Knitter(hand)/ garments (hand	93125	93121	Labourer, maintenance/ construction (dams/roads)
73141	73210	Kumhar	93296	93221	Labourer, manufacturing
<b>L</b>			92145	92110	Labourer, nursery
51204	51222	Laangri	93126	93121	Labourer, plate layer (railways)
93214	93220	Labeller, hand	92127	92110	Labourer, ranch
61295	61295	Laboratory worker, skilled (animals)	96112	91610	Labourer, recycling
92141	61130	Labourer	92115	92110	Labourer, rice farm
92161	92130	Labourer (fishery)	92163	92132	Labourer, trapping
96221	91621	Labourer (odd-jobbing)	93127	93120	Labourer, tube well
93112	93110	Labourer digging (mining and quarrying)	93122	93120	Labourer, well (water)
92164	92130	Labourer, aquaculture	93298	93221	Labourer, wine production
93133	93130	Labourer, builder's	71321	71420	Lacquerer (vehicle/metal)
92123	92111	Labourer, cattle station	73154	73221	Ladler (glass)
92145	92110	Labourer, cemetery: gardening	81218	72110	Ladler, metal
93133	93130	Labourer, construction (buildings)	32534	32210	Lady Health Visitor(LHV)
92145	92110	Labourer, council: gardening	32534	32210	Lady Health Worker(LHW)
93135	93131	Labourer, demolition	71243	71341	Lagger(boiler and pipe)
93122	93120	Labourer, digging (ditch/trench)	93298	93221	Lamp man
93127	93120	Labourer, earthmoving	21622	21410	Landscapist
93291	93220	Labourer, factory	22662	32290	Language therapist
92133	92110	Labourer, farm	73131	73130	Lapidary
			81542	82647	Lapper (folding machine man),

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73186	74311	Lapper(ribbon/fibre/sliver (textiles)	01100	01100	Leader, squadron: air force
22129	22210	Laryngologist	33418	42220	Leader, team: call centre
92127	92110	Lass, stable	33418	42220	Leader, team: contact centre
75363	74420	Laster, bed(shoes)	21652	21480	Leadsman / Leadsman (river survey)
72238	82111	Lathe-operator, capstan/centre (metalworking)	95104	91200	Leaflet distributor
81813	81310	Lathe-operator, glass	31346	81552	Leak man (paraffin plant)
75236	82400	Lathe-operator, woodworking	23102	23100	Lecturer, academy (all subjects)
81143	82122	Lathe-operator, working/ polishing (stone)	23103	23100	Lecturer, college (all subjects)
71231	71330	Lather (plastering)	23203	23100	Lecturer, college: vocational education
91212	91330	Launderer (hand)	23109	23100	Lecturer, higher education
92145	92110	Lawnmower	23101	23100	Lecturer, university (all subjects)
26111	24210	Lawyer, any specialism	23203	23100	Lecturer, vocational education
71221	71320	Layer (floor/wall)	33422	34310	Legal practice manager
71124	71220	Layer, block	33421	34310	Legal secretary
71124	71220	Layer, brick	13495	13190	Legal services manager
74133	72451	Layer, cable (underground)	11111	11100	Legislator
71224	71320	Layer, carpet	21311	22120	Lepidopterist
71224	71320	Layer, composition tile	73165	73240	Letterer, sign-writing
71267	71294	Layer, drain	21659	21480	Leveler (railways/ topographic/ air)
71124	71220	Layer, firebrick	26435	24444	Lexicographer
71223	71322	Layer, floor (parquetry/ wood block)	26435	24444	Lexicologist
71267	71362	Layer-jointer(mains pipes)	26221	24320	Librarian
73221	73413	layer-on, printing press	13496	12290	Librarian, chief
11141	11410	Leader political party	13492	12290	Library manager
26526	34730	Leader, band	13414	13190	Licensee, childcare centre
34126	34604	Leader, club/recreation (associate professional)	01100	01100	Lieutenant colonel, army
34232	34750	Leader, program: recreation	01100	01100	Lieutenant commander, navy
			01100	01100	Lieutenant general, army



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
01100	01100	Lieutenant, army	33121	34190	Loan officer
01100	01100	Lieutenant, flight: air force	24325	24190	Lobbyist
01100	01100	Lieutenant, navy	83434	83338	Lock-keeper (canal or port)
01100	01100	Lieutenant, second: army	72225	72222	Locksmith
83503	83400	Life boatman	72142	72141	Loftsman, (structural metal)
54192	51693	Lifeguard	62106	61411	Logger(market)
54197	51690	Lifesaver, surf	93335	93333	Longshoreman
93298	93225	Lifter, jack	54113	51610	Lookout man (forest fire)
96211	91511	Liftman	92146	92110	Lopper, tree
83505	83402	Light shipman	72338	72337	Lubricator (ship)
34354	12290	Lighting technician	62108	61410	Lumberjack(market)
21339	22110	Limnologist	26418	24510	Lyricist
74223	72450	Line worker	<b>M</b>		
		,telephone/telegraph			
26434	24443	Linguist	81605	82756	Machine operator, Freezing(fruit/vegetable)
73216	73410	Linotyper	72113	72110	Machine man, sand conditioning
24118	24110	Liquidator, company	81553	82650	Machine-operator preparing(fur/pelt)
24118	24110	Liquidator, financial	81553	82651	Machine-operator , leather preparing
43213	41311	Lister, fuel / store/ tool/ material	81814	81310	Machine -operator, mold -press (glass)
31183	31180	Lithographer	72238	82111	Machine -operator, moulding /jarring/jolting
73165	73240	Lithographer, (ceramics decorating)	72238	82110	Machine operator, toy production (metal)
26115	24290	Litigator	72238	82111	Machine-operatoi, hit (metal)
63202	62100	Livestock worker, skilled (subsistence livestock farming)	81513	82610	Machine-operator ((mixing and cleaning / scouring and driving (wool)
93335	93333	Loader (aircraft/ ship (also gasses/ liquids)/ cargo/ furniture)	81431	82531	Machine-operator cardboard products/ lining (cardboard)
93337	93330	Loader, boat	81541	82648	Machine-operator degumming (silk/bleaching (textiles)
96112	91610	Loader, garbage truck	81551	82650	Machine-operator dehairing
75421	71120	Loader, gun perforator			
93336	93333	Loader, railway and road vehicle			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81431	82530	Machine-operator envelope and paper bag production/ paper box production/ paper products)	81571	82641	Machine-operator ( washing (laundry)/ (drying/ pressing)/ washing (cloth/yarn))
81526	82623	Machine-operator jacquard card	81526	82622	Machine-operator ( weaving ((fabrics)/ (jacquard card)/ (laces)/ lacer
72238	82111	Machine-operator minting (metal)	81316	82291	Machine-operator ((lead (-oxide) production/ gas production (chlorine, halogen)
81541	82647	Machine-operator raiser (textiles)	81315	82220	Machine-operator (ammunition products /explosives production)
81541	82648	Machine-operator silk weighting	81513	82610	Machine-operator (blending / combing / preparing / washing(textile fibres)
81541	82640	Machine-operator waterproofing (cloth/fabric)	81832	82900	Machine-operator (capping/sealing/ packing/ bottling/ bagging), filling (containers)/ pelletising)
81112	81110	Machine-operator ( cutting/drilling/ quarry (mining))	81722	81410	Machine-operator (clipping (veneer)/ plywood core laying)
82114	82811	Machine-operator ( assembly-line (aircraft/ vehicle))	81414	82310	Machine-operator (coating / compounding / extruding / milling) (rubber )
81513	82610	Machine-operator ( blowing (fibre treating)/( brushing/ picking (fibre))	81311	81512	Machine-operator (colo'ur making/grease making
81891	82904	Machine-operator ( cable/line installation)	81311	81510	Machine-operator (compounding/crushing/grindin g)
75237	82400	Machine-operator ( crayon-press/ sanding (wood working)/ wood working)	81121	81120	Machine-operator (crushing (coal/mineral/ore/rock/stone)
73235	82520	Machine-operator ( embossing (books)/collating (book binding))	81125	81121	Machine-operator (cutting/drilling/grinding/ planning/ sawing/ splitting (stone))
81831	82905	Machine-operator ( labeling)	81222	82230	Machine-operator (degreasing/ polishing/electroplating
81818	81391	Machine-operator ( mixing (abrasives/ glass)	81218	81223	Machine-operator (die (non-ferrous metal)/ (metal))
81571	82641	Machine-operator ( shrinking/ damping/ dry-cleaning (laundering/laundry)	81223	82230	Machine-operator (dipping/laminating/ painting/ spraying/bluing/ refining) (metal)
81513	82611	Machine-operator ( spinning/ roving-frame/ drawing-frame (synthetic fibre))	81431	82530	Machine-operator (embossing (paper)/ paperboard products)
81513	82612	Machine-operator ( spooling / twining/ twisting/ winding/ doubling)	81141	82120	Machine-operator (fibro/asbestos-cement products
75237	82400	Machine-operator ( sports equipment) / toy production / wood products)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81423	82320	Machine-operator (finishing/ injection moulding/ laminating/ moulding) (plastics)			g/ cycle tube production)
81513	82610	Machine-operator (lapping (ribbon/sliver/fibres)	81607	82771	Machine-operator ,blending (tea)
81722	81410	Machine-operator (milling/ planning / sawing / seasoning/ shaping)	72238	82110	Machine-operator ,commutator production
81551	82650	Machine-operator (mixing (fur/ fibre)	81313	82212	Machine-operator ,detergent
81311	81510	Machine-operator (mixing/pulverizing/blending/mi lling (chemical and related processes))	81324	82240	Machine-operator ,Developing(Motion picture)
81414	82310	Machine-operator (moulding/processing/ calenderer / dipping/ dough and solution(rubber)	81513	82610	Machine-operator ,flate grinder
81324	82240	Machine-operator (paper production/ plate production/ photographic products)	72238	82110	Machine-operator ,machine tool
81313	82210	Machine-operator (Pharmaceutical/coating(tablets & pills)	81602	82720	Machine-operator ,pasteurising (dairyproducts)
81891	82904	Machine-operator (pipe/drain installation)	72238	82110	Machine-operator ,shearing (metal)
81222	82230	Machine-operator (plating/coating/galvanizing) (metal/wire)	81513	82610	Machine-operator ,sizing (yarn)
81431	82530	Machine-operator (Production/cutting/folding/bend ing(paper box)	81609	82790	Machine-operator ,stripping(tobacco leaf)
81722	81410	Machine-operator (shaving / tempering / dryer /treating / processing)	72238	82110	Machine-operator ,tool production
81891	82902	Machine-operator (silicon chip production/insulation)	82115	82811	Machine-operator assembly-line (except vehicles and aircraft)
81552	82651	Machine-operator (staining/ tanning/ boarding butt striking/ buffing	81591	82693	Machine-operator blocking (hats),
81313	82211	Machine-operator (toiletries/ soap making)	81591	82692	Machine-operator braid production
72238	82111	Machine-operator , milling (metal)	81526	82624	Machine-operator carpet production)
81414	82311	Machine-operator , tyer (moulding/ rebuilding/production/vulcanisin	81526	82620	Machine-operator copy (pattern cards)/ fringing
			81591	82691	Machine-operator cutting(garments/textile)
			81552	82651	Machine-operator drum scouring and drum setting (leather))/
			81552	82651	Machine-operator embossing/ glazing/ polishing/ roller/ sammying/ staking leather)
			81526	82622	Machine-operator embroidery/ crocheting/ button hole
			81223	82230	Machine-operator finishing (cast metal articles)/shotblasting(metal)
			81551	82651	Machine-operator fleshing

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		(hide/pelt)	75237	82400	Machine-operator( engraving / etching / finishing / furniture production)(wood)
81591	82693	Machine-operator forming (felt hoods))			
81591	82693	Machine-operator hat making	81312	81595	Machine-operator( fertilizer production)
72238	82111	Machine-operator Internal grinding (metal working)	81324	82240	Machine-operator( film/photography (developing/enlarging/printing)
81526	82621	Machine-operator knitting (link&link (garments)	81315	82220	Machine-operator( fireworks /production)/Dipperman(matche s)
81526	82621	Machine-operator net production/ (knitting (garment/hosiery)	81423	82320	Machine-operator( grinder/ seasoner, (plastics/ plastic products)
81591	82690	Machine-operator pattern-making (fur/ leather/textiles),	81316	82291	Machine-operator( linoleum production/ pencil/ candle (production)
81551	82651	Machine-operator processing (hide/pelt)	81313	82222	Machine-operator( match production)
81591	82693	Machine-operator production fur/ leather/textiles	81121	81120	Machine-operator( milling/pulverizing/washing (minerals/stone))
81591	82693	Machine-operator shrinking (felt hoods)	81216	81234	Machine-operator( mixing /tempering (metal))
81526	82620	Machine-operator threading (loom)/ warping (beam (textile weaving)/	81415	82312	Machine-operator( patch making/ vulcanising (rubber goods except tires)/ rubber stamp production)
81551	82651	Machine-operator washing (hide))	81891	82900	Machine-operator( pelletising)
75237	82400	Machine-operator( woodworking/ boring (woodworking))	81513	82612	Machine-operator( skeining/ reeling / spinning (thread and yarn))
81141	82125	Machine-operator( abrasive-coatings production)	81312	81592	Machine-operator( synthetic-fiber production)
75237	82400	Machine-operator( bending / carving / marking / painting / polishing (wood)	81831	82900	Machine-operator((wrapping)
81144	82122	Machine-operator( cast-concrete products /cutting (mosaic)	81141	82120	Machine-operator(/ stone products)/ stone polishing)
81818	81391	Machine-operator( clay slips production/ (grinding /mixing clay)	81316	82291	Machine-operator(hydrogen etc)/ paint/varnish production/ washing (chemical and related materials)
81312	81596	Machine-operator( coal gas production)	81141	82120	Machine-operator(mineral products)
81423	82320	Machine-operator( cutting/ drilling/ etching/ extruding/fabrication) (plastics)	81541	82640	Machine-operator, ( dying (yarn/textile fabrics)
81414	82310	Machine-operator( embossing/ impregnating/ spooling/ spreading/ tanning)( rubber)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81423	82320	Machine-operator, (buffing/carving/ casting / compression moulding)(plastics)	72238	82111	Machine-operator, boring (horizontal (metalworking))
81718	81431	Machine-operator, (cardboard production/ hardboard)	72238	82111	Machine-operator, boring (jig)
81432	82532	Machine-operator, (cellophane bag production/ polythene bag production)	72238	82111	Machine-operator, boring (metal)
73228	82514	Machine-operator, (composing (linotype)/Braille (plate preparer)/duplicating (braille))	81816	81310	Machine-operator, bottle production
81571	82640	Machine-operator, (drying(textile),	81608	82780	Machine-operator, brewing (spirits)
81561	82660	Machine-operator, (sewing/ stitching)	72238	82111	Machine-operator, buffing (metal)
81609	82790	Machine-operator, (tobacco processing)/product	72238	82111	Machine-operator, burnishing (metal)
72238	82112	Machine-operator, armature production	72238	82111	Machine-operator, cable production
81144	82122	Machine-operator, artificial stone products / cast-stone products/)	81601	82710	Machine-operator, canning (fish)
31392	81710	Machine-operator, assembly line (automated)	81601	82710	Machine-operator, canning (meat)
72238	82111	Machine-operator, automatic transfer (components)	81605	82750	Machine-operator, canning (fruit/vegetable)
72238	82111	Machine-operator, automatic transfer (metalworking)	81145	82122	Machine-operator, carving/ cutting/ engraving/finishing (stone/concrete)
72238	82111	Machine-operator, bending (metal)	81218	81223	Machine-operator, casting (continuous rod (non-ferrous metalboring))
81814	81310	Machine-operator, bending(glass)	73226	82512	Machine-operator, casting (Ludlow/ printing type)/printing (textiles)
81607	82770	Machine-operator, blending (coffee)	81816	81311	Machine-operator, casting (pottery and porcelain)
81608	82782	Machine-operator, blending (spirits)	81814	81311	Machine-operator, ceramics production
81609	82790	Machine-operator, blending (tobacco)	81604	82742	Machine-operator, cereal products
81608	82781	Machine-operator, blending (wine)	81117	81110	Machine-operator, channelling (mine)
81814	81310	Machine-operator, blowing(glass)	81602	82720	Machine-operator, chees emaking
72238	82113	Machine-operator, boiler production	81604	82743	Machine-operator, chocolate production/products
73234	82520	Machine-operator, bookbinding	81609	82790	Machine-operator, cigar production
			81609	82790	Machine-operator, cigarette production
			81603	82731	Machine-operator, cleaning (grain)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72238	82115	Machine-operator, clock production			(pottery)
81526	82620	Machine-operator, cloth production/ drawing-in (textile weaving)	72238	82111	Machine-operator, drilling <metal)
81717	81430	Machine-operator, coating/ back end/ wet end/ impregnating/ laminating (paper making)	81605	82754	Machine-operator, drying (foodstuffs)
81607	82772	Machine-operator, cocoa-bean processing	81541	82640	Machine-operator, dyeing (fabric)/ garments)
81607	82770	Machine-operator, coffee-bean processing	81605	82752	Machine-operator, edible (oil production)
81604	82745	Machine-operator, confectionery production	81814	81310	Machine-operator, engraving (glass)
72238	82111	Machine-operator, core making (metal/tube)	72238	82111	Machine-operator, engraving (metal)
75237	82400	Machine-operator, cork rounding	81604	82745	Machine-operator, enrobing (sugar,confectionary)
81601	82710	Machine-operator, curing (meat)	81814	81310	Machine-operator, etch ing (glass)
81814	81310	Machine-operator, cutting (glass)	72238	82111	Machine-operator, etching (metal)
72238	82111	Machine-operator, cutting (nietal electric are)	81814	81310	Machine-operator, finishing/polishing (glass)
81604	82745	Machine-operator, cutting (sugar confectionary)	81601	82711	Machine-operator, fish processing/ products
81609	82790	Machine-operator, cutting (tobacco leaf)	72238	82111	Machine-operator, flamecutting (metal)
72238	82111	Machine-operator, cuuing (metal)	81605	82750	Machine-operator, foodprocessing (fruit/vegetable)
81602	82720	Machine-operator, dairy products	81601	82711	Machine-operator, freezing (fish)
81605	82754	Machine-operator, dehydrating (foodstuffs)	81601	82710	Machine-operator, freezing (meat)
81608	82782	Machine-operator, distilling (spirits)	81602	82721	Machine-operator, freezing/cooling (dairy products)
81218	81240	Machine-operator, drawing ((metal/wire)/ drawing (seamless pipe/tube)/ extruding (metal))	72238	82111	Machine-operator, gear-cutting (metal working)
81814	81310	Machine-operator, drawing (glass)	81814	81310	Machine-operator, glass - drawing (horizontal)
81816	81310	Machine-operator, drilling (glass)	81816	81310	Machine-operator, glass production (rod/tube)
72238	82111	Machine-operator, drilling (horizontal (metalworking))	81814	81310	Machine-operator, glass production/ products
81816	81311	Machine-operator, drilling	72238	82110	Machine-operator, grinding ((machine)-tool)



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72238	82111	Machine-operator, grinding (external (metal working))	72238	82110	Machine-operator, needle production
81816	81310	Machine-operator, grinding (glass)	81604	82744	Machine-operator, noodle production
81816	81310	Machine-operator, grinding (lens)	72238	82111	Machine-operator, nut production (metal)
72238	82111	Machine-operator, grinding (metal)	81816	81310	Machine-operator, paint log (glass)
81609	82790	Machine-operator, guardite (tobacco)	81816	81311	Machine-operator, painting (ceramics)
81603	82731	Machine-operator, husking(rice)	73227	82513	Machine-operator, photo- typesetting
31327	81634	Machine-operator, ice production	81212	81211	Machine-operator, pig casting (open hearth)
72238	82114	Machine-operator, jewellery production	72238	82110	Machine-operator, pipe production
81605	82750	Machine-operator, juice production (fruit/vegetable)	72238	82111	Machine-operator, planning (metal)
72238	82111	Machine-operator, lapping (nictal)	81814	81310	Machine-operator, plating (glass)
72238	82111	Machine-operator, lint (metal)	81814	81310	Machine-operator, polishing (glass lens)
72238	82111	Machine-operator, liotting (metal)	81814	81311	Machine-operator, pottery and porcelain production
81608	82782	Machine-operator, liqueur production	72238	82111	Machine-operator, precision grinding (metal)
81608	82784	Machine-operator, malting (spirits)	81601	82711	Machine-operator, preserving (fish)
81605	82753	Machine-operator, margarine processing	81601	82710	Machine-operator, preserving (meat)
81601	82710	Machine-operator, meat processing/products	81814	81310	Machine-operator, pressing (glass)
81602	82720	Machine-operator, milk powder production	81591	82693	Machine-operator, production (textile/ mattress / leather)
81602	82720	Machine-operator, milk processing	81146	82123	Machine-operator, production/ polishing (industrial diamonds/ polishing)
81603	82730	Machine-operator, milling (grain/corn)	72238	82111	Machine-operator, reaming (metal)
81605	82752	Machine-operator, milling (oil- seed)	81605	82752	Machine-operator, refining (oils and fats)
81603	82732	Machine-operator, milling(mustard seeds)	81606	82760	Machine-operator, refining (sugar)
81603	82732	Machine-operator, milling(spices)	72238	82110	Machine-operator, rivet production
81603	82731	Machine-operator, milling,(rice)	72238	82110	Machine-operator, riveting
81816	81310	Machine-operator, moulding (glass)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72112	72110	Machine-operator, rod casting (continuous(non-ferrous metal boring))	81601	82710	Machine-operator, washing (carcasses)
81814	81310	Machine-operator, rolling (plate-glass)	81605	82750	Machine-operator, washing (fruit/vegetable)
72238	82111	Machine-operator, sawing (metal)	72238	82115	Machine-operator, watch production
72238	82111	Machine-operator, screw-cutting (metal working)	72238	82111	Machine-operator, welding (metal)
81532	82630	Machine-operator, sewing (leather /leather garments and gloves)	82124	82821	Machine-operator, winding (armature/ filament/ coil)
81531	82630	Machine-operator, sewing (upholstery /embroidery/hats/fur) /garments/ textile products)	72238	82111	Machine-operator, wire goods production
72238	82111	Machine-operator, shaping (metal)	72238	82111	Machine-operator, wiring (electric)
72238	82111	Machine-operator, sharpening (metal)	81722	81410	Machine-operator, wood (boring/ cutting/ drilling)
81562	82660	Machine-operator, shoe perforating /lasting/ cutter /production (any type)	81715	81420	Machine-operator,( chipping/ grinding/ pulping (paper pulp))
81562	82660	Machine-operator, shoe (leveling /shoe- closing /pounding	81818	81391	Machine-operator,( glass-fibre/ glaze) production
81608	82783	Machine-operator, soft-drinks production	81605	82751	Machine-operator,blanching (edible nuts)
72238	82111	Machine-operator, spinning (metal)	81609	82790	Machine-operator,blender(tobacco)
72238	82110	Machine-operator, sports equipment (metal)	81604	82740	Machine-operator,bread/bakery production
81609	82790	Machine-operator, stemming (tobacco)	81609	82790	Machine-operator,cutting( tobacco)
81601	82711	Machine-operator, sterilising (fish)	81603	82730	Machine-operator,grain processing
81601	82710	Machine-operator, sterilising (meat)	81603	82733	Machine-operator,hulling/husking (grain)
81606	82760	Machine-operator, sugar production	81605	82751	Machine-operator,nut-grinding
81607	82771	Machine-operator, tea-leaf processing	81604	82741	Machine-operator,pastry production
81608	82786	Machine-operator, vinegar making	81603	82730	Machine-operator,separating (grain milling)
81608	82787	Machine-operator, washing (bottles)	81605	82750	Machine-operator,sterilising (fruit/vegetable)
			81817	81392	Machinist (brick)
			81563	82660	Machinist , leather
			72238	72230	Machinist, CNC
			72238	72230	Machinist, metal



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81427	82320	Machinist, plastic products	75146	74140	Maker (chutney/jam)
81533	82630	Machinist, sewing	75144	74142	Maker (fruit juice/ sugar (traditional methods)/ vegetable juice)
75238	82400	Machinist, wood products	62102	61410	Maker (log-raft) (market)
26317	24410	Macroeconomist	75336	74362	Maker (sail, tent and awning/ umbrella)
26593	34742	Magician	75364	74420	Maker (shoe/ shoe (orthopedic/sport))
26123	24221	Magistrate	72142	72141	Maker (structural metal)
93325	93322	Mahout	75164	74162	Maker (tobacco cake/plug /cigar /bidi /cigarette /naswar/snuff)
91211	91330	Maid (laundry/ linen)	75336	74365	Maker (toy /dolls and stuffed toys)/ toy (soft toys))
51621	51420	Maid (personal)	75124	74124	Maker ,chewing-gum
91115	91310	Maid ,parlour	73178	74240	Maker ,chik
91128	91320	Maid, chamber	32143	73110	Maker ,dental prosthesis/orthopaedic appliance)
91128	91330	Maid, linen	75312	74331	Maker( cap/hat (straw)/ helmet/wig)
44122	41421	Mailman	75222	74221	Maker( cricket bat/ duce pip/ hockey stick/rackets (wood)
74222	72440	Maintainer, section (telephone/ telegraph /computer)	73112	73110	Maker( instrument (mathematical/ scientific/educational/nautical)
51313	51232	Maitre d' hotel	73112	73110	Maker( precision/ optical/ meteorological/ barometer/ watch/balancer/ fountain pen)
01100	01100	Major general, army	75224	74224	Maker( stamp (rubber)/Pattern-maker, wood patterns/ model (wooden) woodworking)
01100	01100	Major, army	73188	73321	Maker(belt/ leather bag/ leather suitcase)
02100	01100	Major, Sergeant	73187	74325	Maker(braid/ net (fishing/safety))
75336	74362	Maker ( carpet (hand knotting)	73181	73320	Maker(button/ zipper slide-fastener)
75117	74111	Maker ( string (gut)	73195	73315	Maker(candle)
32143	73110	Maker (artificial limb/ brace (orthopaedic)	72221	72220	Maker(jig/gauge)
75343	73372	Maker (bedding/mattress/ quilt)			
73214	73412	Maker (braille plate/ stencil plate (printing)			
75366	74422	Maker (bridle/ harness/ horse collar/ panel (saddlery)/ saddle/ whip/ bladder/			
75131	74130	Maker (butter/ cheese			
73173	73310	Maker (chik)/ Weaver(straw)			
75124	74122	Maker (chocolate/ sugar confectionery)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75222	74221	Maker(sports equipment(wood)/ wicket)	73177	74242	Maker, footwear (raffia)
72221	72220	Maker(tool and die)	73175	74240	Maker, furniture (basketry/wicker)
73131	73130	Maker, (bangle/ jewellery/ precious-metal articles)	75317	74330	Maker, gown
75152	74151	Maker, (champagne /liqueur/ vinegar)	94114	51220	Maker, hamburger
75332	74360	Maker, (cycle cover/ pocket (motor cover)/other covers)	75368	74420	Maker, harness
73187	74360	Maker, artificial flower	73178	73314	Maker, huttle cock
73153	73220	Maker, bangle/ rod/tube (glass)	75133	74130	Maker, ice-cream
73178	74240	Maker, basket	73112	73113	Maker, instrument
75317	74330	Maker, blouse	73121	73120	Maker, instrument (accordion/ drum/ guitar/ violin/ mouthpiece/pipe/ xylophone)
72135	72130	Maker, boiler	73113	73110	Maker, instrument: dental
73216	73410	Maker, braille plate	73113	73110	Maker, instrument: surgical
73176	74241	Maker, broom/brush	73126	73120	Maker, key: piano
94114	51220	Maker, burger	75368	74420	Maker, leather goods
73187	74360	Maker, carpet	75317	74330	Maker, lingerie
75222	74220	Maker, charpoy, furniture (cane), furniture (wood), ladder (wood)	75124	74123	Maker, macaroni/noodle
75224	74227	Maker, cloth, picture frame, pipe (smoking(wood))	21656	21480	Maker, map
75317	74330	Maker, corset	71155	71242	Maker, mast and spar(wood)
81813	81311	Maker, crucible (saggars)	73147	73212	Maker, mould(potter/porcelain)
32142	73110	Maker, dentures	73121	73120	Maker, organ/ musical (brass)/ musical (metal wind)/ musical (string)/ musical (woodwind))
72222	72221	Maker, die (jewellery/ stamping/ wire drawing/ tap-die)	75368	74420	Maker, orthopaedic: footwear
73192	73311	Maker, envelop (hand)	73178	74220	Maker, paper
94114	51220	Maker, fast food	73193	73311	Maker, paper articles
75124	74121	Maker, flour confectionery/ pie/sweat /meat)	72227	72220	Maker, pattern
75366	74422	Maker, football /volleyball/ (hockey/cricketball/sports equipment (leather)	73113	73110	Maker, photographic equipment
75368	74420	Maker, footwear	73216	73430	Maker, photogravure: printing plate
			94112	51220	Maker, pizza

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93298	93223	Maker, pot (tubes)	34357	34740	Man, stunt
73148	73210	Maker, pottery spout	24213	24190	Management consultant
73138	73130	Maker, precious-metal chain	61212	13111	Manager ( dairy farm) (market)
73138	73130	Maker, precious-metal leaf	12214	12332	Manager (assistant) sales,( telephone/mobile phone/internet)/ railway services
72227	72220	Maker, press tool			
75117	74110	Maker, sausage	13243	12260	Manager (assistant), airport
73216	73410	Maker, screen	12199	12270	Manager business services n.e.c
75317	74330	Maker, shirt	13499	12290	Manager professional n.e.c
73126	73120	Maker, sound-board: piano	14393	12290	Manager ,Conference center
75368	74420	Maker, sports equipment: footwear	14395	12290	Manager ,Shopping center
73223	73461	Maker, stencil (silk-screen)	13432	22300	Manager services, aged cares
75368	74420	Maker, surgical footwear	14112	13151	Manager, boarding-house/ hostel
73182	74320	Maker, tapestry (hand)	24348	34150	Manager, account: computer technology
72223	72221	Maker, template (plastics)	24348	34150	Manager, account: ICT
73174	74243	Maker, toy (wood)	24318	24190	Manager, account: marketing
21458	21460	Maker, wine	33325	34390	Manager, account: organizing conferences or events
75122	74120	Maker, yeast	24325	24190	Manager, account: public relations
75222	74222	Maker,barrel/tank/cask(wooden) / coffin/ instrument case(wood)	33225	34150	Manager, account: sales (except ICT, industrial, medical and pharmaceutical products)
73111	73110	Maker,clock/watch			
75132	74130	Maker. dairy products	24337	34150	Manager, account: sales (industrial products)
73214	73413	Maker-up (photo- typesetting/printing)	24348	34150	Manager, account: sales (information and communications technology)
51423	51413	Make-up artist (stage/studio)	24337	34150	Manager, account: sales (medical products)
22125	22210	Malariologist	24337	34150	Manager, account: sales (pharmaceuticals)
61133	61130	Mali (market, greenhouse, park)	12118	12310	Manager, accounts
32595	32260	Malshiya/masseur	12196	12310	Manager, administrative services
81609	82780	Maltster	13433	12290	Manager, aged care
21317	22112	Mammalogist			
32115	31330	Mammo grapher			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
13431	22300	Manager, aged care centers	13412	12290	Manager, child day care centers
13248	12260	Manager, air ramp	13413	12290	Manager, child safety planners
13248	12260	Manager, airport operations	13414	12290	Manager, children's services
14315	13190	Manager, amusement centre	14311	13139	Manager, cinema
14315	13190	Manager, amusement park	13305	13160	Manager, circulations
13307	12360	Manager, application development	12234	12370	Manager, clinical trials
13122	13110	Manager, aquaculture	12217	12330	Manager, commercial
13496	12290	Manager, archives	13308	12260	Manager, Communication and Information technology (not elsewhere classified)
12118	12310	Manager, auditing firm	12224	12340	Manager, communications: public relations
14315	13190	Manager, billiards hall	12131	12310	Manager, compliance
13467	13170	Manager, branch: building society	13307	12360	Manager, computer systems
31233	12230	Manager, building site	25223	21310	Manager, computer systems: systems administration
13467	13170	Manager, building society	14394	12290	Manager, Contact center
13248	12260	Manager, bus station	14396	13190	Manager, contact centre
24348	34150	Manager, business development: ICT	33418	42220	Manager, contact centre team
12131	12290	Manager, business planning	12131	12290	Manager, corporate planning
14124	13152	Manager, cafe/ canteen/ restaurant (self-service)/ snack-bar	12196	12310	Manager, corporate services
33418	42220	Manager, call centre team	13496	12290	Manager, corrective services
14396	13150	Manager, camp site	13433	13190	Manager, cottage: aged care
14396	13150	Manager, caravan park	13446	13190	Manager, cottage: welfare services
13433	12290	Manager, care: nursing home	13248	12260	Manager, courier service
13414	13190	Manager, care: out of school hours	13414	13190	Manager, crèche
14315	13190	Manager, casino	13467	13170	Manager, credit union
13433	13190	Manager, centre: aged care	23555	23590	Manager, dance studio: instructing
14205	13142	Manager, chain-store/ discount-store/ supermarket	26213	24310	Manager, data
14208	13140	Manager, charity shop	25215	21310	Manager, database
13411	12290	Manager, child care services			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
13235	12230	Manager, demolition	62218	13110	Manager, fish farm(market)
14205	13140	Manager, department store	13122	13110	Manager, fish hatchery
12196	12310	Manager, department: administration	12131	12290	Manager, fisheries: conservation
12192	12280	Manager, department: cleaning	12131	12290	Manager, fisheries: policy
13496	12290	Manager, department: cultural activities	13248	12260	Manager, flight operations
13452	12290	Manager, department: education	13496	12290	Manager, flight safety
12121	12320	Manager, department: employee relations	13245	12260	Manager, freight traffic department
13496	12290	Manager, department: recreation	33418	42220	Manager, front office: hospital or school
12121	12320	Manager, department: recruitment	33325	34390	Manager, functions
14206	12240	Manager, department: shop	14208	13140	Manager, garden centre
13496	12290	Manager, department: sporting activities	12196	13170	Manager, general: business services
14205	12240	Manager, department: supermarket	14396	13150	Manager, general: camping site
12121	12320	Manager, department: workplace relations	14396	13150	Manager, general: caravan park
25193	21390	Manager, deployment: information and communication technology (ICT)	12196	13180	Manager, general: cleaning
13496	12290	Manager, design service	13452	13190	Manager, general: education
35144	31210	Manager, e-commerce: managing website	13217	13120	Manager, general: manufacturing
13496	12290	Manager, emergency services	14206	13140	Manager, general: self-service store
12128	12320	Manager, employee relations	14206	13140	Manager, general: shop
33325	34390	Manager, events	14206	13140	Manager, grocery
12217	12330	Manager, exports	14113	13151	Manager, guest-house/ lodging-house
12196	12280	Manager, facilities	13245	12261	Manager, harbor/dock/wharf department
13433	13190	Manager, facility: aged care	13421	13190	Manager, health facility
13446	13190	Manager, facility: welfare services	13421	12290	Manager, health service
12122	12320	Manager, field party	13433	13190	Manager, hostel: aged care
12115	12310	Manager, finance	13446	13190	Manager, hostel: welfare services
13496	12290	Manager, fire services	14114	13151	Manager, hotel /inn/ motel
			13446	12290	Manager, housing services

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
12128	12320	Manager, human resources	13226	12220	Manager, metallurgy
13307	12360	Manager, ICT development	13248	12260	Manager, metropolitan railway station
13248	12260	Manager, imports	13307	12260	Manager, Network
13248	12260	Manager, imports and exports	13414	13190	Manager, nursery: childcare
26214	24310	Manager, information	13433	13190	Manager, nursing home
25223	21310	Manager, information systems: systems administration	33418	34390	Manager, office
25223	21310	Manager, information technology: systems administration	13226	12220	Manager, offshore installation: oil or gas
32525	41430	Manager, information: health	31542	31440	Manager, operation flight control
14391	13196	Manager, information: tourist	13307	12360	Manager, operations: computer systems
35144	31210	Manager, information: website management	13226	12220	Manager, operations: mining
13461	13171	Manager, insurance	12131	12290	Manager, planning: policy
13307	12360	Manager, internet: department	12131	12290	Manager, planning: strategic
13307	13170	Manager, internet: managing business	13226	12220	Manager, plant: mining
35144	31210	Manager, internet: managing website	13217	12220	Manager, plant: power generation
13307	13170	Manager, ISP	13114	12210	Manager, plantation
13414	13190	Manager, kindergarten	13414	13190	Manager, playgroup
14123	13150	Manager, kitchen(railway/ flight/ ship) / kitchen (any industry)	12131	12290	Manager, policy development
13496	12290	Manager, laboratory	14315	13190	Manager, pool hall
11143	11421	Manager, labour union	13248	12260	Manager, postal service
33424	34310	Manager, legal practice	13217	12220	Manager, power station
14315	13190	Manager, leisure centre	13226	12220	Manager, processing: mining
13433	13190	Manager, lodge: aged care	13248	12353	Manager, procurement
13446	13190	Manager, lodge: welfare services	12234	12370	Manager, product development
13248	12260	Manager, logistics	13218	13120	Manager, production and operations: manufacturing
13248	12260	Manager, mail operations	13214	12220	Manager, production/ operations (fabrication of products of paper, plastic etc.)
14208	13140	Manager, mail-order store	13213	12220	Manager, production/operations (electrical equipment manufacturing, installation and

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		repairing)	13212	13120	Manager, regional (manufacturing)
			25193	21390	Manager, release: projects (ICT)
13215	12220	Manager, production/operations (glass and ceramics manufacturing)	25193	21390	Manager, release: systems (ICT)
13216	12220	Manager, production/operations (manufacturing of machinery and metal products)	12234	12370	Manager, research
			12234	12370	Manager, research and development
13218	12220	Manager, production: chemicals	13433	12290	Manager, residential care: nursing home
13218	12220	Manager, production: gas supply	14315	13190	Manager, riding school
13218	12220	Manager, production: oil refinery	12213	12331	Manager, safe deposits / credit/ loan (financial corporation)
13218	12220	Manager, production: petroleum refinery	12212	12330	Manager, sales (insurance)
13218	12220	Manager, production: power generation	52444	91130	Manager, sales team: call centre
13218	12220	Manager, production: waste management	52444	91130	Manager, sales: call centre
13218	12220	Manager, production: water supply and treatment	31233	12230	Manager, site: building
			14315	13190	Manager, snooker hall
12234	12370	Manager, programme: research	12131	12290	Manager, social administration
13235	12230	Manager, project: civil engineering	12131	12290	Manager, social planning
12234	12370	Manager, project: clinical trials	34357	12290	Manager, stage
13235	12230	Manager, project: construction	14208	13140	Manager, station, service
12234	12370	Manager, project: research	14206	13140	Manager, store: retail
33342	34130	Manager, property	12131	12290	Manager, strategic planning
12131	12290	Manager, public policy	14315	13190	Manager, swimming pool
13496	12290	Manager, publishing	13307	12360	Manager, systems development
13248	12260	Manager, railway station	14315	13190	Manager, theatre
13114	12210	Manager, ranch	14315	13190	Manager, theme park
33325	34390	Manager, reception: weddings	51135	51130	Manager, tour
26215	24310	Manager, records	13248	12260	Manager, traffic
32525	41430	Manager, records: health	13248	12260	Manager, transport
13232	13130	Manager, regional (Construction)	13248	13160	Manager, transport company
			13122	13110	Manager, trawler



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31215	71110	Manager, under: mine	81608	82785	Mashman (yeast production)
13248	12260	Manager, urban transit system	71122	71221	Mason
13241	13140	Manager, warehousing company	71133	71132	Mason (monument)
14203	12240	Manager, warehousing company	71233	71331	Mason (stucco)
35144	31210	Manager, website	71131	71220	Mason, stone
14202	13140	Manager, wholesale trade	32553	41430	Massage therapist
12128	12320	Manager, workplace relations	32556	32260	Masseur
13226	12220	Manager, works: mining	32556	32260	Masseuse
11203	12101	Managing-director, enterprise	71321	71420	Master (varnish)
81575	82648	Mangler	83436	83337	Master, (dry dock)
51422	51412	Manicurist	23412	23310	Master, primary education
81218	81220	Manipulator, rolling-mill	34357	34740	Master, property: broadcasting
52411	52100	Mannequin/ Model, fashion	31525	31420	Master, ship: inland waterways
51621	51421	Manservant	31525	31420	Master, ship: sea
13218	13120	Manufacturer	83126	83121	Master, Shunting
31229	81710	Manufacturing supervisors (any specialism)	22213	22300	Master, ward (hospital)
73231	73450	Marbler, bookbinding	75317	74330	Master, wardrobe
62102	61410	Marker (tree/timber) (market)	35144	31210	Master, web
72224	72221	Marker(metal)	31523	31421	Master, yacht
75322	74350	Marker, garment	81411	82310	Masticator (rubber)
73165	73230	Marker, glass engraving	75315	74340	Matcher, fur
71327	71424	Marker, highway lane	93136	93130	Mate, bricklayer's
72131	72130	Marker, sheet-metal	93136	93130	Mate, builder's
01100	01100	Marshal, air	93136	93130	Mate, carpenter's
01100	01100	Marshal, air chief	31526	31420	Mate, chief: ship
01100	01100	Marshal, field	31526	31420	Mate, first
94121	91323	Masalchi	31526	31420	Mate, second
81516	82611	Maser, tufting )	31526	31420	Mate, ship
			31526	31420	Mate, third



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31523	31421	Mate, tugboat	35215	31315	Mechanic, audio visual
21201	21210	Mathematician, actuarial science	74217	72420	Mechanic, automated teller machines
21203	21210	Mathematician, applied mathematics	74217	72430	Mechanic, avionics
21202	21210	Mathematician, pure mathematics	81424	82320	Mechanic, bench (plastics)
21209	21220	Mathematicians, actuaries and statisticians n.e.c	72343	72310	Mechanic, bicycle
13423	22300	Matron	74217	72430	Mechanic, business machine: electronic
54132	51630	Matron (jail/ prison)	74217	72430	Mechanic, calculating machine: electronic
13433	22300	Matron, nursing home facility	72332	72330	Mechanic, construction machinery
73221	73413	Maturer, printing papers	32144	73110	Mechanic, dental
26361	24600	Maulana	74122	72411	Mechanic, electrical
11112	11105	Mayor	74217	72430	Mechanic, electronics
93123	93120	Mazdoor	74213	72430	Mechanic, electronics (audio—visual equipment/ office equipment)
71271	72333	Mechanic (air conditioning equipment)	72334	72333	Mechanic, engine (diesel except motor vehicle))
72311	72310	Mechanic (automobile/ motor cycle/ motor vehicle/ GD)	72316	72310	Mechanic, engine/ diesel( motor vehicle)
72338	72335	Mechanic (boat/ship/ engine room ship)	72316	72310	Mechanic, engine: motor vehicle
71272	72333	Mechanic (refrigeration)	72316	72310	Mechanic, garage
72312	72310	Mechanic (transmission(automobile))	72325	72320	Mechanic, helicopter
72313	72310	Mechanic (truck/bus/trolley/tractor)	72339	72336	Mechanic, instrument
72339	72334	Mechanic ,plant maintenance	72332	72333	Mechanic, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile
74221	72441	Mechanic(telephone/telegraph/c omputer)	72316	72310	Mechanic, motorized tricycle
74221	72441	Mechanic(television/radio)	74217	72430	Mechanic, office machine: electronic
74217	72430	Mechanic, accounting-machine	72344	72310	Mechanic, perambulator
72322	72320	Mechanic, aircraft (engine service)	72316	72310	Mechanic, rickshaw: motorized
72321	72320	Mechanic, aircraft (hydraulic system)	72316	72310	Mechanic, small engine
72325	72320	Mechanic, airframe			
72325	72320	Mechanic, airframe and power plant			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72332	72333	Mechanic, steam engine/plant maintenance/ typewriter/ curing press/ packaging machine)	31152	31150	Mechanical-engineering( motor/ locomotive engineering / other specialism)
72316	72310	Mechanic, tuk-tuk	31152	31150	Mechanical-engineering(instruments/ jet engine/ lubrication
72335	72333	Mechanic, turbine (except aircraft and marine turbines)	31152	31150	Mechanical-engineering(internal combustion/(any specialism))
72337	72334	Mechanic, water treatment plant	72316	72310	Mechatronician
72332	72333	Mechanic, woodworking/ turbine/ weaver beam/ earth-moving equipment/ petrol	24236	24120	Mediator, workplace
21442	21450	Mechanical-engineer	13425	12290	Medical Administrator
21445	21450	Mechanical-engineer ( industrial machinery and tools/ instruments)	22114	22210	Medical officer (general)
21446	21450	Mechanical-engineer ( motors and engines (marine)/ ship construction)	33441	34310	Medical practice manager
21441	21450	Mechanical-engineer (aeronautics)	32522	41430	Medical record clerk
21447	21452	Mechanical-engineer (nuclear power/ cryogenic)	33445	34310	Medical stenographer
21443	21450	Mechanical-engineer, agriculture	33447	34310	Medical transcriptionist
21444	21450	Mechanical-engineer, air-conditioning/ automotive	73136	73134	Melter, gold
21444	21450	Mechanical-engineer, boiler and accessories	81214	81220	Melter, metal
21444	21450	Mechanical-engineer, motors and engines (except marine)	11113	11106	Member ,all government bodies
31153	31150	Mechanical-engineering technician ( automotive/ diesel/ gas turbine)	11111	11101	Member of parliament
31154	31150	Mechanical-engineering technician ( industrial machinery and tools)	26362	24601	Member of religious orders (non-muslim)
31152	31150	Mechanical-engineering technician (air-conditioning/ heating )	11208	12100	Member, board
31152	31150	Mechanical-engineering technician(ventilation /refrigeration)	11111	11100	Member, house of assembly
31154	31150	Mechanical-engineering technician/agriculture)	11126	11252	Member, judicial
			11111	11100	Member, legislative assembly
			11111	11100	Member, legislative council
			11114	11106	Member, local body /district council
			11113	11106	Member, public service commission
			94115	51220	Member, team: fast food (cooking)
			33234	34160	Merchandiser, buying
			52423	52200	Merchandiser, demonstrating

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
33234	34160	Merchandiser, purchasing	32221	32320	Midwife (associate professional)
52424	52200	Merchandiser, sales	32222	32321	Midwife (auxiliary)
34324	34710	Merchandiser, visual	32223	32320	Midwife, assistant
14204	13140	Merchant (wholesale)	32223	32320	Midwife, lay
14201	13143	Merchant(retail trade)	22221	22302	Midwife, professional
96122	91610	Merchant, scrap	32223	32320	Midwife, traditional
96218	91510	Messenger	23533	23590	Migrant education teacher
96213	91510	Messenger (postal)	92124	92111	Milker (hand)
93317	93310	Messenger, bicycle	61214	92110	Milker(market)
83227	83220	Messenger, driving car	92125	92111	Milking-machine operator/ Pastoralist
83227	83220	Messenger, driving van	61214	92110	Milkmaid(market)
83216	83210	Messenger, motorcycle	81411	82310	Mill man (rubber manufacturing)
96218	91510	Messenger, office	81311	81513	Miller
96218	91510	Messenger, on foot	81142	82120	Miller (cement manufacturing)
96218	91510	Messenger, telegraph	81542	82647	Miller (textile)
31353	81210	Metal processing control operator	81421	82320	Miller, (plastics)
21468	21470	Metallurgist	81817	81392	Miller, clay
21467	21473	Metallurgist ( foundry / physical)	81603	82732	Miller, garanimasalah
21465	21473	Metallurgist, extractive	75313	74331	Milliner
21468	21473	Metallurgist, radioactive minerals	72336	72333	Millwright
			26553	24550	Mime, artist
21124	21122	Meteorologist, climatology	44116	41410	Mimeographer
26523	24532	Mezzo-soprano	81212	81211	Minder, stove (blast furnace)
21316	22110	Microbiologist	13222	12220	Mine manager
21142	21140	Micropalaeontologist	31211	71110	Mine supervisor
34313	31310	Microphotographer	31212	71110	Mine under-manager
32562	32212	Microscopist	81113	71110	Miner(surface/underground/ blower down/ coal/ hydraulic (placer mining)/ salt
01100	01100	Midshipman			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81118	71110	Miner, diamond	75122	74120	Mixer, paste (pies)
81118	71110	Miner, gold	81716	81420	Mixer, pulp slurry (wallboard)
21143	21140	Mineralogist	35211	31310	Mixer, sound
21462	21471	Mining-engineer, all except petroleum and natural gas	75128	74120	Mixer, sugar confectionery
21463	21471	Mining-engineer, petroleum and natural gas	26361	24600	Moazzan
11111	11101	Minister, government	52412	52101	Model, advertising
26362	24601	Minister, religion (clergyman)	52413	52102	Model, artist's
23412	23310	Mistress, primary education	52414	52100	Model, clothing display
75313	74333	Mistress, wardrobe (stage and studio)	73146	73211	Modeller, pottery and porcelain
71122	71221	Mistry	26511	24520	Modeller, sculpture
75225	74221	Mistry, cricket bat, racket maker,(wood)	44191	41904	Moharrar thana
72211	72210	Mistry, forging (steam hammer)	42112	42120	Moneychanger
81605	82752	Mistry, hardening (edible oil)	42131	42140	Money-lender
75367	74423	Mistry, leather ball makers	26364	24603	Monk (professional)
81517	82610	Mistry, wool	26364	24603	Monk( Nun professional)
81421	82320	Mixer (cellophane bath)	34134	34800	Monk, associate professional
81311	81513	Mixer (fertilizer)	75425	71120	Monkey, powder
93296	93224	Mixer (size, textiles/ water proof solution)	73213	73411	Monotyper
75161	74160	Mixer (tobacco)	26364	24600	Monsignor
81712	81420	Mixer ,coating (paper)	26435	24444	Morphologist
81411	82310	Mixer, (ban bury/ mill (rubber)/ tar (rubber))	03100	01100	Mortar man, army
73185	74311	Mixer, batch (jute)	03100	01100	Mortar woman, army
75122	74120	Mixer, bread dough	33122	34190	Mortgage officer
75128	74120	Mixer, chocolate	51632	51430	Mortician
71142	71233	Mixer, Concrete	26365	24600	Mother superior
75128	74120	Mixer, flour confectionery	83217	83210	Motorcyclist
71318	71410	Mixer, paint	34216	34750	Motorcyclist racing
			83314	83231	Motorman ,tramcar

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
83115	83110	Motorman, underground or elevated train	26361	24600	Mufti
93293	93220	Mould catcher (glass manufacturing)	26196	24290	Mukhtarcar
73144	73210	Moulder (brick and tile (hand))	26361	24600	Mullah
72111	72110	Moulder(metal castings, bench)	25133	21310	Multimedia programmer
73214	73413	Moulder(roller (printing)/ stereotype/ electrotpe)	34114	34320	Munshi
73148	73212	Moulder, abrasive wheel	54147	91523	Munshi gate
93298	93223	Moulder, autoclave	13493	12290	Museum manager
81316	82291	Moulder, candle making/ Spinner, nylon	26526	34731	Musician (street/ night-club)
75128	74120	Moulder, chocolate	26526	24530	Musician, instrumental
75166	74160	Moulder, cigar	26525	24534	Musicologist/ music transcriber/
72114	72111	Moulder, floor and pit(metal casting)	21316	22111	Mycologist
73158	73220	Moulder, glass	<b>N</b>		
75491	73220	Moulder, glass (lens)	34114	34320	Naib court
81413	82311	Moulder, kynock (cycle cover)/ summit press (other covers)/	91125	91325	Naib Qusid
75497	73220	Moulder, optical lens	75315	74341	Nailer ,fur
81434	82530	Moulder, papier-mâché	72211	72210	Nal bund
81427	82320	Moulder, plastic	53111	51310	Nanny
73213	73421	Moulder, sterotype/ electrotpe	22309	32410	Naturopath
26361	24600	Moullim	31527	31420	Navigator, ship
73138	73130	Mounter, jewellery	93123	93120	Navvy
73211	73434	Mounter, photogravure (printing)	73131	73130	Nayara (jewellery)
93334	93330	Mover, furniture	11114	11100	Nazim /Naib Nazim
92146	92110	Mower, lawn	34114	34320	Nazar
93124	93120	Mucker (except mine)	21317	22112	Nematologist
81112	81110	Mucker (mine/quarry))	22129	22210	Neonatologist
26591	34740	Muddari	22124	22210	Nephrologist
34134	34800	Muezzin	25221	21310	Network administrator
			25232	21310	Network analyst

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22128	22210	Neurologist	22218	22300	Nurse, industrial
22129	22210	Neuropathologist	22218	22300	Nurse, operating theatre
22129	22210	Neurosurgeon	22218	22300	Nurse, orthopaedic
26562	34720	News anchor	32215	32310	Nurse, practical
52214	13140	Newsagent	22218	22300	Nurse, public health
95201	91120	Newsvendor	22218	22300	Nurse, registered
93343	93330	Nightfiller	22218	22300	Nurse, specialist
81225	81232	Nitrider(metal)	32406	32270	Nurse, veterinary
02100	02100	Non-Commissioned officers (all forces)	61134	61131	Nurseryman(market)
81217	81233	Normaliser (metal treating)	53221	51330	Nursing aid(home)
26195	24295	Notary (public)	22653	32230	Nutritionist (public health/sports)
26414	24510	Novelist	<b>O</b>		
03100	01100	Number, gun: army	26523	24532	Oboist
03100	01100	Number, missile: army	21653	21480	Observer, field
11131	11301	Numberdar	21125	21122	Observer, meteorological
51613	51521	Numerologist	43124	41223	Observer, silt
34134	34800	Nun (associate professional)	22124	22210	Obstetrician
32212	32311	Nurse (associate professional), any specialism	22633	22290	Occupational health and safety advisor
22215	22300	Nurse (professional), any specialism	22634	22290	Occupational hygienist
53112	51312	Nurse maid	21144	21140	Oceanographer, geological
22214	22300	Nurse, (head) (professional)	96221	91621	Odd-job person
32215	32310	Nurse, assistant	21458	21460	Oenologist
22218	22300	Nurse, charge	21653	21480	Off setter
22211	22300	Nurse, clinical	11123	11222	Officer (assistant), protocol
22218	22300	Nurse, consultant: clinical	11126	11254	Officer (chief), district council
22218	22300	Nurse, district	13242	13162	Officer (chief), traffic/transportation
22212	22300	Nurse, educator	33542	34441	Officer (immigration/passport issuing)
32215	32310	Nurse, enrolled			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
33332	34232	Officer (job placement/youth employment)	12131	12310	Officer, chief compliance
12125	12321	Officer (operations)	11208	12100	Officer, chief executive
33532	34431	Officer (pensions/social benefits/social security claims)	12118	12310	Officer, chief financial
54142	51690	Officer (security guard)	13307	12360	Officer, chief information
34122	34603	Officer ,/probation) (associate professional)	11208	12100	Officer, chief operating
54147	91523	Officer ,plant protection(industrial)	02100	01100	Officer, chief petty: navy
33126	34190	Officer, acceptance: financial institution	13426	12290	Officer, chief public health
11121	11203	Officer, accounts	13307	12360	Officer, chief technology
33326	34390	Officer, activities: organising conferences or events	11122	11213	Officer, civil defense
11123	11222	Officer, administrative	13426	12290	Officer, clinical: chief
31543	31440	Officer, aerodrome	11206	12107	Officer, commercial(divisional)
21327	32130	Officer, agricultural extension	35126	31210	Officer, computer services: helpdesk
01100	01100	Officer, air force	35126	31210	Officer, computer support
32581	51320	Officer, ambulance	25224	21310	Officer, computer systems: managing system
54198	51690	Officer, animal control	21339	22110	Officer, conservation
11127	11262	Officer, anti-malaria	54133	51630	Officer, corrective services: guard
11124	11232	Officer, apprenticeship	11121	11203	Officer, credit control
01100	01100	Officer, army	33126	34190	Officer, credit: bank, building society or credit union
24118	24110	Officer, audit	44166	41900	Officer, crewing
33126	34190	Officer, bank lending	42226	42220	Officer, customer service: call centre
33126	34190	Officer, bank: loans or lending	35126	31210	Officer, customer service: computer support
32123	32112	Officer, blood transfusion	42226	42220	Officer, customer service: directory assistance
11121	11203	Officer, budget	33514	34410	Officer, customs
01100	01100	Officer, cadet: armed forces	33554	34501	Officer, cypher/Detective,store
21339	22110	Officer, catchment management	11128	11272	Officer, data control
51512	51210	Officer, catering	35126	31210	Officer, desktop applications support
21205	21220	Officer, census	35126	31210	Officer, desktop support
13426	12290	Officer, chief clinical			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
12124	12321	Officer, development	26225	24320	Officer, information
26357	24460	Officer, district: social welfare	24225	24190	Officer, intelligence
33416	41120	Officer, documentation worker	11122	11214	Officer, intelligence(police)
21336	22110	Officer, environmental	35126	31210	Officer, internet: helpdesk
22636	32220	Officer, environmental health	35126	31210	Officer, internet: support
21336	22110	Officer, environmental management	35126	31210	Officer, IT support
21336	22110	Officer, environmental protection	11126	11254	Officer, labour
21336	22110	Officer, environmental rehabilitation	24241	24122	Officer, labour welfare
21336	22110	Officer, environmental waste	11121	11203	Officer, land requisition
11123	11222	Officer, estate	34116	34320	Officer, law
33525	34420	Officer, excise	26115	24290	Officer, legal
34122	34600	Officer, family planning, (associate professional)	33126	34190	Officer, lending services: bank, building society or credit union
42275	41900	Officer, field: interviewing	44117	41410	Officer, loans: library
42275	41900	Officer, field: market research	42272	41222	Officer, Manpower Survey
33126	34190	Officer, finance: approving, assessing or processing loans	22129	22210	Officer, medical: specialist
11126	11254	Officer, firearms	31215	71110	Officer, mining technical
21327	22110	Officer, fisheries management	42273	4122	Officer, mobile
33415	41335	Officer, flight operation	21338	22110	Officer, natural resource management
21338	22110	Officer, flora and fauna management	21338	22110	Officer, natural resource: ecology
01100	01100	Officer, flying: military	01100	01100	Officer, naval: military
11127	11262	Officer, food (scientific)	35126	31210	Officer, network support
12113	12311	Officer, foreign exchange	33592	34493	Officer, non-gazetted
35126	31210	Officer, helpdesk: information technology( IT)	13426	22300	Officer, nursing: principal
33126	34190	Officer, home loans	24245	24120	Officer, occupational
33515	34410	Officer, immigration	22636	31520	Officer, occupational health and safety
13497	12290	Officer, immigration: chief	22636	31520	Officer, occupational hygiene
24244	24123	Officer, industrial relations	11123	11222	Officer, organisation and methods
			24225	24190	Officer, parliamentary: research



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26357	24460	Officer, parole	24236	24120	Officer, recruitment
26356	24463	Officer, parole /probation (professional)/	34333	34390	Officer, reference: library
11123	11223	Officer, passport	21338	22110	Officer, rehabilitation: environmental rehabilitation
33512	34411	Officer, passport checking	11128	11272	Officer, research
11121	11203	Officer, pay(roll)	22129	22210	Officer, resident medical: in specialist training
24242	24122	Officer, personnel	22118	22210	Officer, resident medical: specializing in general practice
22636	24120	Officer, personnel: safety	21338	22110	Officer, revegetation
75445	71430	Officer, pest management	11121	11203	Officer, revenue
02100	01100	Officer, petty: navy	44166	41900	Officer, rostering
01100	01100	Officer, pilot: air force	34122	34602	Officer, rural development(associate professional)
33557	34500	Officer, police: detective	11123	11223	Officer, saving (divisional)
33557	34500	Officer, police: inspector	11123	11222	Officer, section
54124	51620	Officer, police: patrol	11129	11283	Officer, sector (agriculture)
54124	51620	Officer, police: sergeant	33126	34190	Officer, securities: loans or lending
44125	41420	Officer, postal	24225	24190	Officer, security: policy
26122	24220	Officer, presiding (labour)	01100	01100	Officer, senior: defense forces
24322	24190	Officer, press liaison	33126	34190	Officer, settlements: loans or financial settlements
13426	22300	Officer, principal nursing	31522	31420	Officer, ship (deck)/ (navigation)
22216	22300	Officer, principal nursing (professional)	35224	31320	Officer, ship: radio
33235	34160	Officer, procurement	21338	22110	Officer, soil conservation
11123	11222	Officer, protocol	34224	34753	Officer, sports
11127	11262	Officer, public health	24246	24120	Officer, staff development
13426	12290	Officer, public health: chief	24243	24122	Officer, staff training
24323	24190	Officer, public information/ relations	21206	21220	Officer, statistical
24225	24190	Officer, public policy	33235	34160	Officer, supply
33235	34160	Officer, purchasing	35126	31210	Officer, support: IT
22636	32220	Officer, radiation protection			
35219	31320	Officer, radio station			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
25224	21310	Officer, support: network administration	11116	11107	Official, legislative
21207	21220	Officer, survey	11142	11420	Official, senior: employers' organization
25224	21310	Officer, systems support: systems administration	72338	72330	Oiler and greaser
33526	34420	Officer, tax	72338	72330	Oiler and greaser, ship
31424	32130	Officer, technical: field crop	61125	22130	Olericulturist(market)
31424	32130	Officer, technical: horticulture	11112	11105	Ombudsman
31215	71110	Officer, technical: mining	22129	22210	Oncologist
31424	32130	Officer, technical: poultry	22129	22210	Oncologist, radiation
25224	21310	Officer, technology: systems administration	83435	83336	Onsetter (mine)/ Winding engineman (mine)
42214	42210	Officer, tourism information	83432	83330	Onsetter, mine
11123	11223	Officer, tourist	73184	74311	Opener, fibre(textile)
21338	22110	Officer, tree management	31324	81631	Operator (purification plant (water)
21338	22110	Officer, vegetation management	81122	81120	Operator ( breaker (gyratory)
02100	01100	Officer, warrant	81127	82124	Operator ( concrete-mixing plant)
11129	11283	Officer, water logging	83413	83310	Operator ( forestry machinery/motorized equipment)
21338	22110	Officer, water quality	31337	81540	Operator ((distillation (wood)
21338	22110	Officer, waterways management	31335	81530	Operator ((filter bag/ rotary drier/ vacuum drier) (chemical)
21338	22110	Officer, waterways: policy development	83412	83310	Operator (agricultural machinery)
11121	11203	Officer, wealth tax	35212	31312	Operator (audio equipment (radio/television)
35144	31210	Officer, web development	32113	31332	Operator (audiometric equipment/ medical radiography equipment (X ray/scan)
11142	11420	Official (senior)	31332	81520	Operator (autoclave/ burner/ calciner/ drier
11145	11431	Official (senior), humanitarian/ special- interest organization	81412	82310	Operator (calendar (rubber)/ refiner (rubber)/ rubber processing plant/ rubber reclamation)
11141	11410	Official (senior), political party	83433	83337	Operator (capstan/ sluice (dock))
33438	34391	Official, (consular )	31324	81631	Operator (compressor (air)/
34224	34753	Official, (sports)			
33592	34491	Official, electoral			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		(gas))			(agricultural)
35218	31322	Operator (control-room equipment (radio/television)	44133	41432	Operator ,document-sorting machine
81314	82211	Operator (distilling equipment (perfume) centrifuge (soap making)	31339	81595	Operator ,fish fertilizer/ liquefaction plant (gases)
31334	81530	Operator (filter/ filter-press/ centrifugal separator(chemical and related processes)	31335	81531	Operator ,Foreman, purification (chemical)
31322	81630	Operator (gas engine/ hydraulic station/ pumping-station (water)	61228	61221	Operator ,incubator(market)
83412	83310	Operator (Harvester/ motorised farm equipment/ thresher)	93296	93222	Operator ,ripping machine(tobacco)
73213	73411	Operator (intertype/ linotype/ monotype keyboard)	83433	83336	Operator ,ropeway (aerial)/ winch/
35216	31320	Operator (morse code/photo-radio/radio equipment (flight/land-based/sea-based	41323	41140	Operator / clerk, accounting machine
81323	73444	Operator (paco-machine/ photo line)	83427	83325	Operator earth-boring machinery construction
31346	81552	Operator (paraffin plant)	81215	81222	Operator metal (unfinished products)/ non-ferrous metal
81892	82900	Operator (pelletiser (iron ore)/ marking equipment (roads/goods)/ merry-go-round)	81215	81222	Operator seamless pipe and tube/ steel (cold-rolling)
31339	81593	Operator (treater (radioactive waste)/	81215	81222	Operator steel (continuous)
31318	81612	Operator (wind-energy plant (electric power generating)	81215	81222	Operator steel (hot-rolling/billet/ blooming/cogging)
62104	61410	Operator (wood harvesting machine) (market)	75237	82400	Operator( fret-saw/ jigsaw)
35111	31220	Operator , computer	81314	82211	Operator( granulation equipment (toiletry products)
35112	31220	Operator , computer peripheral equipment	31328	81634	Operator( heating plant/ ventilation equipment)
31312	81610	Operator , gas plant (electric power generation)	31322	81630	Operator( Incinerator (refuse disposal)/ sewage plant)
83412	83310	Operator ,Baler (farm)	81314	82211	Operator( moulding equipment (toilettries)/ still (perfume))
83433	83334	Operator ,boat (derrick)	81716	81420	Operator( pulp refiner/ screener (paper pulp))
41323	41140	Operator ,bookkeeping machine/ calculating-machine	31334	81530	Operator( screener /separator/ sifting equipment (chemical and related processes)
81543	82647	Operator ,calendar (textiles)	31318	81612	Operator( tidal power plant)
83433	83335	Operator ,chair-lift/cable car	31332	81520	Operator(/ cooking equipment/ roasting equipment
83412	83310	Operator ,Combiner	32113	31332	Operator(/ electrocardiograph equipment/ scanning equipment (optical)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31332	81520	Operator(/retort /oven/ heat-treating-plant (chemical and related processes)	31545	31441	Operator, air-traffic control equipment
31335	81531	Operator(absorption/ centrifuge/ extractor/ expeller(chemical)	42233	42230	Operator, answering service
31343	81551	Operator(blender/distiller/ Compounder (petroleum and natural gas refining)	31392	81710	Operator, assembly line (automated)
31332	81520	Operator(cement production plant)	32116	31330	Operator, audiometric equipment
31339	81594	Operator(chemical processing plant (electric cells/radioactive materials)	35212	31310	Operator, audiovisual
81122	81120	Operator(cone (mine)/ gravitation equipment (mine)	81601	82710	Operator, autoclave (meat and 'fish)
32113	31332	Operator(optical scanner / electroencephalograph equipment)	81605	82752	Operator, autoclave (oils and fats)
35218	31322	Operator(public address equipment)	81609	82750	Operator, autoclave: fruit and vegetables
72115	72111	Operator(rumbler)	41311	41110	Operator, automatic typewriter
31322	81630	Operator(stationary engine/ desilting basin	83507	83400	Operator, barge
81316	82291	Operator(Worker (general), cook house (glue)	81726	81410	Operator, barker
31328	81634	Operator, (water treatment / reservoir (water)	81606	82760	Operator, battery (sugar)
73217	73432	Operator, (ammonia print/ powder process)	81716	81420	Operator, beater/ bleacher/ boiler/ digester
81316	82291	Operator, (centrifuge (glue)/ kettle (adhesives)/ radioactive waste treatment )	81212	81211	Operator, bell (blast furnace)
31311	81610	Operator, (chief), turbine (electricity generation)	81118	81110	Operator, bogger
83433	83332	Operator, (conveyer)	81317	81520	Operator, boiler: chemical and related processes
81818	81391	Operator, (crog mill / pug-mill) clay	83433	83333	Operator, bridge (any type)
72212	72211	Operator, (drop-hammer )	35217	31321	Operator, broadcasting equipment (radio/television/video/field)
81821	81620	Operator, (steam engine/ boiler (ship)\ Boiler plant (steam))	83437	83330	Operator, cable railway
81723	81411	Operator, (wood-processing plant/ glue kitchen)	83437	83330	Operator, cage: mine
83427	83325	Operator, air drill (construction)	81718	81430	Operator, calender: pulp and paper
			42227	42220	Operator, call centre
			52445	91130	Operator, call centre: cold calling
			42276	41900	Operator, call centre: conducting surveys
			52445	91130	Operator, call centre: outbound calls
			73216	73430	Operator, camera: printing

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
34313	31310	Operator, camera: still photography	81118	81110	Operator, continuous miner
81606	82760	Operator, carbonation equipment (sugar refining)	31355	81210	Operator, control-panel: blast furnace
81606	82760	Operator, centrifugal (sugar)	31338	81590	Operator, control-panel: chemical plant
81601	82711	Operator, centrifuge (fish oil)	31343	81550	Operator, control-panel: coal gas production
52307	42110	Operator, checkout	31321	81630	Operator, control-panel: incinerator
31338	81520	Operator, chemical and related processing plant	31355	81210	Operator, control-panel: metal production
31338	81530	Operator, chemical filtering and separating equipment	31394	81430	Operator, control-panel: paper-making
31338	81540	Operator, chemical still and reactor	31343	81550	Operator, control-panel: petroleum and natural gas refinery
81726	81410	Operator, chipper: wood	31394	81420	Operator, control-panel: pulp production
81602	82720	Operator, churn (butter making)	31355	81210	Operator, control-panel: smelting
81605	82753	Operator, churn (margarine)	31321	81630	Operator, control-panel: water treatment
35218	31323	Operator, cinematograph	41322	41131	Operator, converter(tape to card)
81608	82781	Operator, clarifier (wine)	81317	81540	Operator, converter: chemical processes (except petroleum and natural gas)
81543	82646	Operator, cleaning equipment (carpets)	81608	82782	Operator, cooking equipment (malt)
81543	82641	Operator, cleaning equipment (cloth/textiles)	81609	82780	Operator, cooking equipment: malt
81574	82640	Operator, cleaning equipment: laundry	81608	82781	Operator, cooling machine (malt liquor)
81543	82644	Operator, cloth measuring	31338	81630	Operator, cooling plant
81718	81430	Operator, combiner/supercalender/ treating plant (paper production)	81121	81120	Operator, crusher: mineral or stone processing
81317	81550	Operator, compounder: petroleum and natural gas refining	81606	82760	Operator, crystallizing equipment (sugar refining)
41325	41140	Operator, comptometer	81214	81220	Operator, cupola
35127	31210	Operator, computer helpdesk	73236	82520	Operator, cutter: printing
35113	31220	Operator, computer printer: high-speed	81317	81530	Operator, dehydrator: oilfield
83421	83321	Operator, concrete finishing machine (road paving)	31321	81630	Operator, desilting basin
81609	82790	Operator, conditioner (tobacco)	73212	73410	Operator, desktop publishing equipment

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81815	81311	Operator, die-press (pottery and porcelain)	81605	82754	Operator, evaporation equipment (food essences)
81609	82760	Operator, diffuser: beet sugar	81317	81540	Operator, evaporator: chemical processes (except petroleum and natural gas)
83427	83320	Operator, digger: trench digging			
42227	42220	Operator, directory assistance	31343	81550	Operator, evaporator: petroleum and natural gas
81608	82782	Operator, distiller (brewery)	81317	81540	Operator, extractor: wood distillation
81317	81540	Operator, distiller: batch (chemical processes except petroleum and natural gas)	81218	81240	Operator, extrusion press
81317	81540	Operator, distiller: continuous (chemical processes except petroleum and natural gas)	73228	82510	Operator, feeder: printing
81317	81550	Operator, distiller: petroleum and natural gas refining	81608	82785	Operator, fermentation equipment (spirits)
81317	81540	Operator, distiller: turpentine	31338	81630	Operator, filter: chemical and related processes
81317	82210	Operator, distilling equipment: perfume	31321	81630	Operator, filter: water
31318	81610	Operator, distribution control	73236	82520	Operator, foil stamp
83433	83336	Operator, donkey engine	81218	81220	Operator, foil-winding machine
83421	83320	Operator, dragline	73236	82520	Operator, folder: printing
81118	81110	Operator, dragline: mining	44134	41433	Operator, franking machine
83421	83320	Operator, dragline-bucket	31328	81630	Operator, freezer
83421	83322	Operator, dredge	83427	83320	Operator, front-end loader
81602	82720	Operator, drier (dairy products)	81543	82642	Operator, fulling-mill (textiles)
81132	81130	Operator, drilling equipment (rotary)/fishing tool/mud plant/derrick (oil and gas wells)	83437	83330	Operator, funicular
83428	83325	Operator, drilling plant	81218	81230	Operator, furnace: annealing (metal)
35212	31314	Operator, dubbing equipment/sound-mixing equipment	81218	81230	Operator, furnace: case-hardening (metal)
81138	83320	Operator, earth-boring machinery: construction	31355	81210	Operator, furnace: converting (non-ferrous metal)
81138	83320	Operator, earth-moving equipment	31355	81210	Operator, furnace: converting (steel)
31311	81610	Operator, electric power plant	31355	81220	Operator, furnace: melting (metal)
83433	83336	Operator, elevator (material-handling)	31355	81210	Operator, furnace: metal smelting (blast furnace)
			81218	81210	Operator, furnace: puddling
			31355	81210	Operator, furnace: refining (non-ferrous metal)



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31356	81210	Operator, furnace: refining (steel)	81609	82790	Operator, hopper (cigarettes)
31321	81630	Operator, furnace: refuse disposal	31318	81610	Operator, hydroelectric power plant
31356	81210	Operator, furnace: smelting (metal)	81605	82754	Operator, hydrogenation equipment (oils and fats)
31356	81210	Operator, furnace: steel refining (electric-arc furnace)	61228	61220	Operator, incubator: farm(market)
31356	81210	Operator, furnace: steel refining (open-hearth furnace)	35127	31210	Operator, internet helpdesk
42121	42130	Operator, gambling-table / pool (betting)	81118	81110	Operator, jumbo
31344	81550	Operator, gas plant	81317	81520	Operator, kettle: chemical and related processes
73236	82520	Operator, gatherer: printing	81813	81310	Operator, kiln: biscuit (pottery and porcelain)
31318	81610	Operator, generating station	81813	81310	Operator, kiln: biscuit (tile)
31313	81610	Operator, generator (electric power (hydroelectric))	75216	74210	Operator, kiln: dry (wood)
31313	81610	Operator, generator electric power (steam)	81813	81310	Operator, kiln: glost (pottery and porcelain)
31316	81612	Operator, geo-thermal/ solar (power plant)	81813	81310	Operator, kiln: glost (tile)
81608	82784	Operator, germination equipment (malting(spirits))	75216	74210	Operator, kiln: lumber
83427	83320	Operator, grader and scraper: construction	81813	81310	Operator, kiln: oven (pottery and porcelain)
81314	82210	Operator, granulation equipment (pharmaceutical products)	81813	81310	Operator, kiln: porcelain
81606	82760	Operator, granulator (sugar)	81813	81310	Operator, kiln: pottery
72238	82111	Operator, grinder (surface tools)	81813	81310	Operator, kiln: retort (brick and tile)
81606	82760	Operator, grinding equipment (sugar-cane)	81813	81310	Operator, kiln: tile
51524	51210	Operator, guest house	81815	81310	Operator, ladle (glass)
31338	81520	Operator, heat treating plant: chemical	81218	81220	Operator, ladle: pouring (metal)
81216	81230	Operator, heat-treating plant / carbonation equipment (metal)	81122	81120	Operator, lathe (stone)
35127	31210	Operator, helpdesk: IT	72238	82110	Operator, lathe: capstan (metal working)
35127	31210	Operator, helpdesk: software	72238	82110	Operator, lathe: centre (metal working)
81602	82720	Operator, homogeniser(diary product)	81726	81410	Operator, lathe: cutting (veneer)
			81726	81410	Operator, lathe: cutting (wood)
			81726	81410	Operator, lathe: veneer
			81609	82790	Operator, leaf department (tobacco)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73223	82510	Operator, letterpress (cylinder/platen)	81609	82780	Operator, machine: distilling (spirits)
73228	82510	Operator, letterpress: rotary	83427	82900	Operator, machine: drain installation
35212	31314	Operator, light/(camera (motion picture)/ (television))	81218	81240	Operator, machine: drawing (seamless tube)
31321	81630	Operator, liquid waste process	75238	81410	Operator, machine: drilling (wood)
83437	83330	Operator, lock: canal or port	83437	82900	Operator, machine: electrical line installation
83414	83310	Operator, logging plant	72238	82110	Operator, machine: engraving (metal)
81528	82623	Operator, loom (carpet weaving)/ lace production)	72238	82110	Operator, machine: etching (metal)
72238	82110	Operator, machine: automatic transfer (components)	72238	82110	Operator, machine: flamecutting (metal)
72238	82110	Operator, machine: bending (metal)	81564	82660	Operator, machine: footwear production
81428	82320	Operator, machine: blowing (plastic bottle)	81564	82660	Operator, machine: footwear production (orthopaedic)
81834	82900	Operator, machine: branding	81564	82660	Operator, machine: footwear production (raffia)
72238	82110	Operator, machine: burnishing (metal)	81564	82660	Operator, machine: footwear production (sports)
72238	82110	Operator, machine: cable (production)	72238	82110	Operator, machine: forging (metal)
73228	82510	Operator, machine: casting (printing type)	72238	82110	Operator, machine: forming (metal)
81428	82530	Operator, machine: cellophane bag production	81818	81390	Operator, machine: grinding (clay)
81148	82120	Operator, machine: cement products	72238	82110	Operator, machine: grinding (machine-tool)
72238	82110	Operator, machine: clock (production)	91295	91320	Operator, machine: high pressure cleaning
72238	82110	Operator, machine: commutator (production)	31338	81630	Operator, machine: ice production
81148	82120	Operator, machine: concrete production	81148	82120	Operator, machine: industrial-diamond production
72118	82110	Operator, machine: core making (metal)	72238	82110	Operator, machine: jewellery (production)
72118	82110	Operator, machine: core making (tube)	81218	82290	Operator, machine: lead production
72118	82110	Operator, machine: core-blowing	81553	82650	Operator, machine: leather preparing
81593	82690	Operator, machine: cutting (garments)	81553	82650	Operator, machine: leather sewing
81553	82650	Operator, machine: cutting (leather)	81121	81120	Operator, machine: magnetic ore processing
81593	82690	Operator, machine: cutting (textiles)			
81726	81410	Operator, machine: cutting (veneer)			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81835	82900	Operator, machine: marking (goods)	81609	82750	Operator, machine: preserving (vegetables)
81218	81220	Operator, machine: metal processing	81718	81420	Operator, machine: pulping (wood)
72238	82110	Operator, machine: milling (metal)	81218	82230	Operator, machine: refining (metal)
81121	81120	Operator, machine: mineral processing	72238	82110	Operator, machine: rivet production
81818	81390	Operator, machine: mixing (glass)	72238	82110	Operator, machine: riveting
81818	81390	Operator, machine: mixing (glaze)	81518	82610	Operator, machine: roving-frame (textile fibres)
72238	82110	Operator, machine: moulding (metal)	81412	82310	Operator, machine: rubber products
72238	82110	Operator, machine: needle production	72238	82110	Operator, machine: sawing (metal)
72238	82110	Operator, machine: nut production (metal)	75216	81410	Operator, machine: seasoning (wood)
75216	82400	Operator, machine: painting (wood)	72238	82110	Operator, machine: shaping (metal)
81718	81430	Operator, machine: papermaking	72238	82110	Operator, machine: shearing (metal)
81609	82740	Operator, machine: pasta production	81564	82660	Operator, machine: shoe production
81895	82900	Operator, machine: pencil production	81545	82640	Operator, machine: shrinking (textiles)
81326	82240	Operator, machine: photographic film	72238	82110	Operator, machine: spinning (metal)
81326	82240	Operator, machine: photographic film production	81896	82900	Operator, machine: splicing (cable and rope)
81326	82240	Operator, machine: photographic products	72238	82110	Operator, machine: sports equipment (metal)
73228	82510	Operator, machine: photo-typesetting	75216	81410	Operator, machine: tempering (wood)
72238	82110	Operator, machine: pipe production (metal)	81593	82690	Operator, machine: tent making
81428	82320	Operator, machine: plastic cable making	72238	82110	Operator, machine: tool production
81148	82120	Operator, machine: polishing (industrial diamond)	75216	81410	Operator, machine: treating (wood)
81428	82320	Operator, machine: polythene bag production	81609	82750	Operator, machine: vegetable juice production
81218	81220	Operator, machine: pouring (metal)	81609	82750	Operator, machine: vegetable processing
72238	82110	Operator, machine: precision grinding (metal)	82116	82810	Operator, machine: vehicle assembly
81609	82710	Operator, machine: preserving (fish)	81545	82640	Operator, machine: washing (cloth)
81609	82750	Operator, machine: preserving (fruit)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81518	82610	Operator, machine: washing (textile fibres)	73237	82520	Operator, perfect binder
81545	82640	Operator, machine: washing (yarn)	31344	81550	Operator, petroleum process
72238	82110	Operator, machine: watch production	83421	83320	Operator, pile-driver
91295	91320	Operator, machine: water blasting	81726	81410	Operator, planer: sawmill
72126	82110	Operator, machine: welding (metal)	81218	81240	Operator, plant: metal extrusion
72126	82110	Operator, machine: wire goods production	83421	83325	Operator, pneumatic drill
81608	82784	Operator, malt house (malt liquor)	31356	81210	Operator, pot line: aluminium
32116	31330	Operator, medical ultrasound	31356	81210	Operator, pot room: aluminium
81606	82760	Operator, melter (sugar)	31356	81210	Operator, pot: aluminium
81606	82760	Operator, melthouse drag (sugar)	72238	82111	Operator, power-shear
83437	82900	Operator, merry-go-round	81138	81130	Operator, power-tong
35212	31312	Operator, microphone	73224	82510	Operator, press: digital
81121	81120	Operator, mineral-processing plant	81609	82750	Operator, press: edible oils
81118	81110	Operator, mining plant	81218	81240	Operator, press: extruding (metal)
81604	82745	Operator, mogul (sugar confectionery)	73224	82510	Operator, press: flexographic
35224	31320	Operator, morse code	72217	72210	Operator, press: forging
73237	82520	Operator, multibinder	81609	82750	Operator, press: fruit
31312	81610	Operator, natural gas plant (electric power generating))	73224	82510	Operator, press: gravure
31317	81612	Operator, nuclear power plant	81718	81430	Operator, press: hardboard
81214	81221	Operator, oven/descaler (metal)	81428	82320	Operator, press: laminated (plastics)
31394	81420	Operator, panel board: pulp and paper	73224	82510	Operator, press: large sheet-fed
31394	81430	Operator, panelboard: paper-making	72238	82110	Operator, press: metal (except forging)
81815	81310	Operator, pantograph (glass decorating)	72217	72210	Operator, press: metal (forging)
81718	81430	Operator, papermaking plant	73224	82510	Operator, press: photogravure
42122	42131	Operator, pari-mutuel system	81726	81410	Operator, press: plywood
83422	83321	Operator, paving machinery (bituminous/concrete)	72238	82110	Operator, press: punching (metal)
			73224	82510	Operator, press: screen printing

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73224	82510	Operator, press: small	31311	81611	Operator, rectifier (electric current)
72238	82110	Operator, press: stamping (metal)	31394	81420	Operator, refinery: paper pulp
81545	82640	Operator, press: steam (textiles)	31344	81550	Operator, refinery: petroleum and natural gas
81545	82640	Operator, press: textile	31321	81630	Operator, refrigeration system
81726	81410	Operator, press: veneer	44114	41412	Operator, reproduction (office)
81726	81410	Operator, press: waferboard	81718	81420	Operator, repulper
73224	82510	Operator, press: web	31321	81630	Operator, reservoir: water
93295	93221	Operator, proofing	83421	83320	Operator, road surface laying machine
81818	81390	Operator, pug-mill: clay	83421	83321	Operator, road surface laying machinery
81136	81133	Operator, pulling equipment (oil and gas wells)	81607	82772	Operator, roasting equipment (cocoa-bean)
81138	81130	Operator, pulling equipment: oil and gas wells	81607	82770	Operator, roasting equipment (coffee)
31394	81420	Operator, pulping control	31394	81720	Operator, robot: industrial
31344	81550	Operator, pumping-station: petroleum and natural gas	83437	83330	Operator, roller coaster
41322	41132	Operator, punched card sorting machine	81215	81222	Operator, rolling mill (metal finished products)
41322	41130	Operator, punching machine(card& tape)	81609	82730	Operator, rolling-mill: spices
31335	81531	Operator, purification/ filtration (chemical)/ centrifuge (paint and varnish)	72238	82111	Operator, router (metal working)
35224	31320	Operator, radio equipment: flight	73237	82520	Operator, saddle stitch: bookbinding
35224	31320	Operator, radio equipment: land-based	81224	82230	Operator, sandblast lug equipment (metal)
35224	31320	Operator, radio equipment: sea-based	81815	81310	Operator, sandblasting equipment (glass)
35216	31320	Operator, radio telegraph)/ telecommunications equipment/ wireless	81726	81410	Operator, saw: circular
31338	81540	Operator, reactor: chemical	81726	81410	Operator, sawmill
31318	81610	Operator, reactor: nuclear-power	81606	82760	Operator, screen (sugar refining)
81317	81540	Operator, reactor-converter: chemical processes (except petroleum and natural gas)	81602	82720	Operator, separator (butter making)
35213	31312	Operator, recording equipment (discs/tape/video/wire)	52307	42110	Operator, service station console
			75238	74230	Operator, set-up: woodworking machine

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
81718	81430	Operator, sheeter: pulp and paper	35212	31310	Operator, studio equipment: television
81311	81510	Operator, shredder/stirrer (chemical mixing)	81606	82760	Operator, sugar processing equipment (continuous refining)
83325	83243	Operator, shuttle-car (mine/quarry)	42233	42230	Operator, switch board (telephone)
83437	83330	Operator, ski-lift	31315	81611	Operator, switchboard (electrical power station)
81218	81210	Operator, slurry equipment: metal	31338	81590	Operator, synthetic-fibre production plant
31356	81210	Operator, smelter	41322	41133	Operator, tabulating machine (punch card)
83428	83320	Operator, snow groomer	83427	83324	Operator, tamping machinery (construction)
81608	82783	Operator, soda plant	75216	74210	Operator, tank: timber treating
93296	93222	Operator, splitting , machine(tobacco)	35224	31320	Operator, telecommunications: equipment
81602	82720	Operator, spray plant(milk processing)	35224	31320	Operator, telegraphic equipment
81317	81520	Operator, spray-drier: chemical and related processes	52445	91130	Operator, telephone: canvassing
83427	83321	Operator, spreader (concrete/asphalt)	42276	41900	Operator, telephone: market research
83428	83320	Operator, spreader: stone (construction)	42276	41900	Operator, telephone: surveying
83424	83320	Operator, spreader: tar	52445	91130	Operator, telephone: telemarketing
81602	82720	Operator, sterilizer (dairy products)	31175	31171	Operator, testing (oil well tester)
31338	81540	Operator, still: batch (chemical processes except petroleum and natural gas)	33396	34140	Operator, tour
31338	81540	Operator, still: chemical	35212	31320	Operator, transmitting equipment: radio
31338	81540	Operator, still: continuous (chemical processes except petroleum and natural gas)	35212	31320	Operator, transmitting equipment: television
31344	81550	Operator, still: petroleum and natural gas refining	31344	81550	Operator, treater: desulphurization (petroleum and natural gas refining)
81609	82780	Operator, still: spirits	31344	81550	Operator, treater: petroleum and natural gas refining
31344	81550	Operator, still-pump: petroleum and natural gas refining	31394	81590	Operator, treater: radioactive waste
81121	81120	Operator, stone-processing plant	31344	81550	Operator, treating equipment: crude oil
83426	83320	Operator, streetsweeper	83415	83310	Operator, tree faller
83427	83321	Operator, strike off machine (concrete paving)	81726	81410	Operator, trimmer: sawmill
35212	31310	Operator, studio equipment: radio	83442	83340	Operator, truck (fork-lift/ industrial)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31323	81630	Operator, tube well	22672	32241	Optometrist
83427	83322	Operator, tunneling machinery (construction)	22616	22220	Oral and Maxillofacial Surgeon
83433	83338	Operator, turntable (railway)/ weighbridge)/ lock (canal or port)	26526	24530	Orchestrator
81218	81210	Operator, uranium classifier	52231	52200	Order man (shop/retail establishment)
81605	82755	Operator, vacuum oven (foodstuffs)	53294	51323	Orderly
81605	82755	Operator, vacuum pan (food essences)	26356	24463	Organiser, home help (professional)
81602	82720	Operator, vacuum pan(condensed milk)	34124	34601	Organiser, home help. associate professional
81317	81540	Operator, vacuum pan: chemical and related processes (except petroleum and natural gas)	12216	12334	Organiser, sales (regional or overseas)/ (wholesale/retail trade)
81609	82790	Operator, vacuum-conditioner (tobacco processing)	26523	24532	Organist
31321	81630	Operator, wastewater	24211	24190	Organization and methods analyst
31321	81630	Operator, water treatment plant	26342	24450	Organizational Psychologist
43215	41310	Operator, weighbridge	42215	34141	Organizer , travel
81608	82781	Operator, winemaking plant	33326	34390	Organizer, conference and event
41318	41120	Operator, word processing	33326	34390	Organizer, exhibition
81513	82611	Operator,frame((thread and yarn spinning)	33326	34390	Organizer, function
81604	82740	Operator,moulding machine((bakery products)	26357	24460	Organizer, women's welfare
31338	81541	Operator/(still (alcohol, perfume or turpentine	21317	22112	Ornithologist
41324	41141	Operator/clerk, automatic data-processing machine	22642	32260	Ortho paedic physical therapist
41325	41142	Operator/clerk, posting machine/ invoicing machine	22665	32290	Ortho phoniest
22127	22210	Ophthalmologist	32148	73110	Ortho tist
11118	11100	Opposition leader	22612	22221	Orthodontist
32542	32240	Optician, contact lens	22665	32290	Orthoepist
32541	32240	Optician, dispensing	22674	32240	Orthoptist
22671	32240	Optician, ophthalmic	32594	32260	Osteopath, lay/chiropractor
			31229	81710	Other production supervisor
			91294	91610	Other cleaning worker
			33419	41120	Other Office supervisor, n.e c.

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75229	74220	Other sports equipments	71312	71412	Painter(structural steel)
22126	22210	Otolaryngologist	71325	71422	Painter, (manufacturing)
22126	22210	Otologist	71323	71422	Painter, automobile (repair)
22126	22210	Otorhinolaryngologist	34357	34710	Painter, body
22126	22210	Otorhinologist (E.N.T)	73168	73244	Painter, brush/ spray (except construction)
75123	74121	Oven man (bread/biscuits/ flour confectionery)	71318	71410	Painter, brush: construction
81608	82784	Oven man (malt roaster)	73163	73240	Painter, decorative (glass/ceramics)
81812	81312	Ovenman, pottery and porcelain	73168	73243	Painter, decorative (sign)
31215	71110	Over man, mine	71324	71422	Painter, hand-dip (except glass and ceramics)
81524	82622	Overlocker	26513	24521	Painter, miniatures/ portrait
31124	31120	Overseer (civil)	71318	71410	Painter, motion picture set
31215	71110	Overseer, mine	71318	71410	Painter, outside: construction
81225	82232	Oxidiser	71318	71410	Painter, stage scenery
62217	61511	Oyster farm worker(market)	71315	71414	Painter-decorator buildings (wall carpeting/wall covering/ wallpapering)
<b>P</b>			23553	23590	Painting teacher
93213	93220	Packer (hand)	21144	21140	Palaeontologist
93344	93330	Packer, night fill	96215	91513	Palleydar (coolie)
93344	93330	Packer, shelf	51614	51522	Palmist
22643	32260	Paediatric physical therapist,	83434	83331	Pan man (assistant) (rubber manufacturing)
22124	22210	Paediatrician	72135	72130	Panel beater
71326	71423	Painter (spray), metal	71318	71410	Paperhanger
71327	71424	Painter ,bursh / spray(construction)	24125	24190	Para planner, financial
71322	71422	Painter ,Ferro	34117	34320	Paralegal
71313	71413	Painter railway coaches and wagons	33425	34310	Paralegal, secretarial tasks
71311	71410	Painter(building/house/construction)	32581	51320	Paramedic, ambulance
71314	71414	Painter(set/stage)	21317	22112	Parasitologist
71316	71414	Painter(ship interiors/ship's hull)	03100	01100	Paratrooper

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
96292	91525	Parker	71122	71221	Paviour
11111	11100	Parliamentarian	42132	42141	Pawnbroker
11115	11106	Parliamentary Secretary	11129	11200	Paymaster-general, government
26115	24290	Partner, law	93313	93310	Pedal vehicle driver
81608	82784	Pasteurizer (malt liquor)	22124	22210	Pediatrician
26364	24603	Pastor	51427	51410	Pedicurist
61214	92110	Pastoralist(market)	95201	91120	Pedlar
75123	74121	Pastry-cook	52124	91110	Pedlar, food
22127	22210	Pathologist	22613	22221	Pedodontist
22127	22210	Pathologist, clinical	93294	93221	Pegging boy (textiles)
22615	22120	Pathologist, oral	61215	61212	Pelter (farm) (market)
21314	22122	Pathologist, plant	26326	24420	Penologist
26321	24420	Pathologist, social	91125	91325	Peon
22665	32290	Pathologist, speech	26523	24532	Percussionist
22508	22120	Pathologist, veterinary	75422	71120	Perforator, gun
33446	34310	Pathology secretary	22613	22221	Periodontist
33444	34310	Patient care secretary	33434	41150	Personal assistant
54191	51693	Patrolman (beach)	53223	51330	Personal care provider
54113	51610	Patrolman (forest fire)	75442	71430	Pest controller
62107	61412	Patrolman (forest) (market)	21145	21140	Petrologist
54121	51620	Patrolman (police/highway)	73138	73130	Pewter smith
54143	51690	Patrolman (security)	22623	22240	Pharmacist, industrial
72224	72221	Pattern-maker (metal foundry)	22624	22240	Pharmacist, wholesale/retail
75323	74350	Pattern-maker( caps/ fur/ garment/ gloves/ hats/ sails/ tents/ mattresses/ upholstery)	22622	22240	Pharmacist/ Pharmacist (hospital)
75364	74420	Pattern-maker, shoe	21313	22121	Pharmacologist
75328	74350	Patternmaker, umbrellas	22502	22230	Pharmacologist, veterinary
75324	74350	Pattern-maker,others	26431	24440	Philologist (any specialism)
26197	24290	Patwari ,canals/revenue	26331	24430	Philosopher (any specialism)



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
53298	51320	Phlebotomist	21118	21111	Physicist (theoretical / solid-state)
26434	24443	Phonologist	21111	21111	Physicist , astronomy
73212	73434	Photo lithographer	21117	21111	Physicist ,rheology
73211	73410	Photo-composer ,printing	21115	21111	Physicist, (heat / hydrodynamics / thermodynamics/ mechanics)
73215	73430	Photo-engraver	21113	21111	Physicist, ballistics
21659	21481	photogrammetrist	21119	21110	Physicist, clinical
34311	31310	Photographer (advertising/commercial/fashion / micro)	21119	21111	Physicist, general
34312	31310	Photographer (aerial/police/ portrait/press/ scientific)	21119	21110	Physicist, medical
34311	31310	Photographer, architecture	21318	22120	Physiologist
34311	31310	Photographer, industrial	21314	22122	Physiologist (plant/ insects)
34311	31310	Photographer, medical	22641	32260	Physiotherapist
34311	31310	Photographer, news	26523	24532	Pianist
73212	73434	Photographer, photogravure	72115	72111	Picker
34311	31310	Photojournalist	92113	92110	Picker, (cotton/ fruit/tea)
73216	73410	Phototypesetter, printing	73184	74311	Picker, fibre(textile)
22118	22210	Physician, general medicine	75432	31525	Picker, finishing department (textile)
22129	22210	Physician, specialist	96122	91610	Picker, recycling
22129	22210	Physician, specialist: internal medicine	81516	82612	Picker, waste (fibre)/
22129	22210	Physician, specialist: nuclear medicine	75356	74412	Pickier ,pelt
22129	22210	Physician, specialist: nuclear medicine	75141	74140	Pickier(fruit)
22129	22210	Physician, sports	75116	74113	Pickler, meat/fish
22111	22210	Physician/ Physician, medical service(school)	75143	74141	Pickler(vegetable)
21119	21110	Physicist	26513	24521	picture restorer
21112	21111	Physicist (atomic / molecular/ nuclear)	81516	82612	Piecer (textile)/
21114	21111	Physicist (electricity and magnetism/ electronics)	81114	71110	Piler, mine
21116	21111	Physicist (light/ optics/ sound/ acoustics)	31533	31431	Pilot (aircraft/helicopter/ test)
			31536	33400	Pilot, check
			31524	31423	Pilot, hovercraft/ ship



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31538	31430	Pilot, seaplane	81223	82230	Plater, wire (machine)
71264	71361	Pipe -fitter(gas/water/steam/ ventilation /sewerage) (except electrical)	72146	72144	Plater,ship
71263	71361	Pipe-fitter (aircraft/ marine)	34212	34750	Player (bridge/ billiards) professionals
21317	22112	Pisciculturist	34212	34750	Player, cards
81211	81211	Pitman	34212	34750	Player, chess
71142	71230	Placer, Concrete	34212	34750	Player, hockey
71132	71131	Planer (stone)	26526	24530	Player, musical instrument
21659	21481	Planetabler	34212	34750	Player, poker
33416	42220	Planner, call centre workforce	34212	34750	Player, sports
33416	42220	Planner, contact centre workforce	34212	34750	Player, tennis
13462	13171	Planner, estate (insurance)	26418	24510	Playwright
24226	24190	Planner, social	75356	74412	Plucker, pelt
21641	21411	Planner, town	71261	71360	Plumber (any type)
21645	21412	Planner, traffic	74137	72450	Plumber-jointer, electric cable
21642	21411	Planner, urban	22129	22210	Pneumologist
33416	42220	Planner, workforce: contact centre	22692	32260	Podiatrist
62105	61410	Planter (forestry) (market)	26413	24510	Poet
92113	92110	Planter, cane	83122	83121	Points man, (railway)
61125	61120	Planter, copra(market)	72115	72111	Poker man
61118	61110	Planter, cotton(market)	54122	51621	Police officer
61118	61110	Planter, sugar-cane(market)	54124	51623	Police officer (harbor/ river/ railway)
61125	61120	Planter, tea(market)	54122	51621	Police officer (traffic)
61118	61110	Planter, tobacco(market)	54121	51620	Policewoman
71233	71330	Plasterer	24221	24190	Policy analyst
71232	71330	Plasterer(ornamental/ fibrous sheet)	24222	24190	Policy analyst, administration
71236	71330	Plasterer, plasterboard	12131	12290	Policy manager
72132	72131	Plater, (boiler maker	71134	71134	Polisher (stone)
			81422	82320	Polisher, (plastics)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75368	74420	Polisher, footwear	72116	72111	Pourer(metal)
75492	73222	Polisher, glass (lens/plate)	81218	81210	Pourer, ladle
81127	81123	Polisher, granite /marble/slate/stone	75426	71120	Powder man
81148	73130	Polisher, industrial diamonds	75426	71120	Powder woman
75356	74412	Polisher, leather	23532	23590	Practical language teacher
72246	72240	Polisher, metal	22309	32410	Practitioner, acupuncture
73135	73133	Polisher, ornaments/ jewellery	22309	32410	Practitioner, ayurvedic
95101	91200	Polisher, shoe	22305	32410	Practitioner, chinese medicine
75226	74220	Polisher, wood	22616	22220	Practitioner, dental
11111	11100	Politician	22118	22210	Practitioner, general
21322	22130	Pomologist	22305	32410	Practitioner, herbal medicine: chinese
81311	81511	Ponds man	22301	32290	Practitioner, homoeopathic
26362	24600	Poojari	24118	24110	Practitioner, insolvency
93333	93331	Porter (goods-loading / cold- storage	22118	22210	Practitioner, medical
96215	91513	Porter (luggage/ shunting/ hotel/ lobby)	22129	22210	Practitioner, medical: specialist (public health)
93333	93331	Porter( food/fruit market/ warehouse/ shop)/fish /meat)	22221	22300	Practitioner, midwife
96214	91513	Porter, goods loading (railway and road vehicles)	22218	22300	Practitioner, nurse
94124	91320	Porter, kitchen	22302	32410	Practitioner, tcm
44122	41421	Post carrier	22303	32410	Practitioner, unani
96297	91200	Poster, bill	34133	34800	Preacher lay
44126	41420	Postie	81128	81123	Precipitator (gold/silver) /Cupola man, dolomite plant
44122	41421	Postman	11111	11100	Premier
13248	12260	Postmaster	75363	74420	Preparer shoe
11121	11204	Postmaster (deputy/assistant), general	73184	74311	Preparer, fibre(textile)
96213	91510	Post-runner	75364	74420	Preparer, shoe (uppers)
31331	81520	Potman, chemical and related processes	72147	72140	Preparer, structural: metal
73141	73210	Potter	53122	51310	Pre-school teacher assistant

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75142	74140	Preserver (fruit juice/ vegetable juice)	81893	82900	Press-operator baling
75141	74140	Preserver (fruit)	81572	82645	Press-operator, steam (laundry),
75143	74141	Preserver (vegetable)	81724	81412	Press-operator, (veneer/ plywood/ hot-plate (plywood)
75117	74111	Preserver, sauces and condiments	81433	82530	Press-operator, cardboard / cutting and creasing (paper box)
11142	11420	President, employers' organization	81605	82752	Press-operator, edible oils
11203	12101	President, company	81818	81391	Press-operator, filtering (clay)/ extruding
11111	11100	President, government	72238	82111	Press-operator, metal (except forging)
11203	12101	President, enterprise	81425	82320	Press-operator, mould (plastic)
11141	11410	President, political party	81727	81410	Press-operator, plywood
93293	93222	Press cutter (glass manufacturing)	73224	82510	Press-operator, printing (cylinder/platen /direct lithographic)
81719	81432	Press operator( hardboard)	73225	82510	Press-operator, printing (offset/ rotary/ rotogravure/ wallpaper/)
91215	91331	Presser (hand)	81606	82760	Press-operator, pulp (sugar beet)
75163	74162	Presser cigar	72238	82111	Press-operator, punching (metal)
93296	93223	Presser(glass)	81412	82310	Press-operator, rubber manufacturing
73144	73210	Presser, brick and tile (hand)	81412	82310	Press-operator, rubber-embossing
75128	74120	Presser, chocolate production	72238	82111	Press-operator, stamping (metal)
75166	74160	Presser, cigar	81413	82311	Press-operator, tyre moulding
73144	73213	Presser, clay extruding	26593	34742	Prestidigitator
75368	74420	Presser, footwear: soles	33511	34410	Preventive officer
75356	74412	Presser, hide/skin	26364	24603	Priest
75128	74120	Presser, noodle extruding	22404	32210	Primary care paramedic
73146	73210	Presser, pottery and porcelain	22115	22210	Primary health physician
75365	74420	Presser, shoe(soles)	11111	11100	Prime minister
31346	81552	Pressman (paraffin plant)	13458	12105	Principal (vice),school/ college/ university
81573	82645	Pressman (textile),			
75365	74420	Pressman, , shoe			
83435	83336	Pressman, hydraulic			
73221	73413	Pressman, printing press			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73222	73432	Printer (bromide/Stonehand/ferro/ silk-screen/ block/ textile/ bag/ copper plate)	25142	21320	Programmer, computer
73221	73413	Printer , printing press	25193	21320	Programmer, computer: applications testing
81323	73444	Printer, (projection/ film/photo)	25138	21320	Programmer, computer: internet
73222	73434	Printer-to-metal (photogravure)	25193	21320	Programmer, computer: testing (software)
26365	24600	Prior	25138	21320	Programmer, computer: web
81323	73444	Processor, film	25138	21320	Programmer, computer: website
33127	34190	Processor, loans	25216	21320	Programmer, database
81326	73440	Processor, photographic	25138	21320	Programmer, dhtml
41318	41120	Processor, word	25138	21320	Programmer, html
26546	12296	Producer (motion picture / radio/ stage/ television)	25138	21320	Programmer, internet
61214	61210	Producer, animals(market)	25138	21320	Programmer, internet applications
33327	34390	Producer, conference	25138	21320	Programmer, web
33327	34390	Producer, events	25138	21320	Programmer, website
26426	24510	Producer, news: TV/radio	44166	41900	Programmer, workforce
26548	12290	Producer, record	35219	31323	Projectionist, cinema
26548	12290	Producer, theatre	26523	24532	Prombonist
13223	12290	Production manager (mine)	32536	32210	Promoter, community health
13224	12293	Production manager (oil and gas extraction)	33393	34291	Promoter, sports/(Representative/ Salesperson) business services (advertising)
13225	12290	Production manager (quarry)			Prompter
26357	24460	Professional, counseling	34356	12290	
22631	22290	Professionals, health (except nursing)	73212	73434	Proofer (photogravure)
23101	23101	Professor ,university (all subjects)	73211	73413	Proof-presser
23102	23101	Professor, academy (all subjects)	32512	32252	Prophylactician
23103	23101	Professor, college (all subjects)	14204	13140	Proprietor (wholesale)
34355	12290	Program co-ordinator (broadcasting)	52212	13143	Proprietor (retail trade)
25124	21310	Programmer analyst	52213	13144	Proprietor (working) (import-export )
			61134	61131	Proprietor (working) (market)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
61224	61220	Proprietor (working) (poultry) (market)	35145	31210	Publisher, web
14116	13151	Proprietor (working), guest house/ hotel/ motel	74223	72451	Puller, cable (cable laying)
14126	13152	Proprietor (working), restaurant/cafe bar/ canteen/ snack bar	81137	81133	Puller, casing/well (oil and gas wells)
14118	13153	Proprietor , camping site/Caravan park	75357	74412	Puller, pelt
26111	24210	Prosecutor	93317	93310	Puller, rickshaw
32148	73110	Prosthetist	81137	81133	Pulling gang man
32148	73110	Prosthetist, dental	31323	81630	Pump man (water)
22613	22221	Prosthodontist	81608	82781	Pumper (brewery)
21317	22112	Protozoologist	81133	81130	Pumper, oil well
61123	61124	Pruner and trimmer(market)	31341	81550	Pumper, petroleum refining
62108	61410	Pruner, forestry(market)	72146	72145	Puncher
61125	61120	Pruner, fruit trees(market)	26595	34745	Puppeteer
61125	61120	Pruner, shrub: crops(market)	33233	34160	Purchaser (merchandise (retail/ wholesale trade)/tobacco leaf)
62108	61410	Pruner, tree: forestry(market)	51113	51112	Purser, aircraft
92146	92110	Pruner, tree: garden maintenace	51113	51110	Purser, flight
62108	61410	Pruner-trimmer, forestry(market)	12114	12314	Purser, ship
11123	11224	P-S to minister	96233	91531	Pyrometerman (blast furnace)
26357	24460	Psycho educator	<b>Q</b>		
26344	24450	Psychologist, sports	26196	24290	Qanoongo
26346	24450	Psychometrist	26361	24600	Qari
26341	24450	Psychotherapist	25191	21310	Quality assurance analyst (computers)
24325	24190	Publicist	81115	71111	Quarrier
13496	12290	Publisher	31213	71110	Quarry supervisor
73216	73410	Publisher, desk-top: print media	31523	31421	Quartermaster (ship)
35145	31210	Publisher, desk-top: web	<b>R</b>		
35145	31210	Publisher, electronic: internet	26364	24603	Rabbi
			34215	34750	Racer (cycle)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
34215	34750	Racer, automobile	26212	24311	Records manager
22635	22290	Radiation protection expert	03100	01100	Recruit, defense forces
32114	31332	Radiographer	11206	12100	Rector, college
22128	22210	Radiologist	11126	11252	Rector, justice
51646	61290	Raiser, laboratory: animal	26364	24600	Rector, religion
61295	61290	Raiser, ostrich(market)	11206	12100	Rector, university
61214	61210	Raiser, sheep(market)	96121	91610	Recycling worker
72115	72111	Rammer	81516	82612	Reeler ( jute/wool/ silk)
61215	61212	Rancher (cattle)/ Raise (camel) (market)	26198	24291	Referee ,appeals(social security claims)
61214	61210	Rancher(market)	26192	24290	Referee, appeals (social security claims)
62107	61412	Ranger(market)	34223	34753	Referee, sports
21338	22110	Ranger, park: environmental protection	93344	93330	Refiller, filling shelf, fridge or freezer
81542	82643	Rangsaz	75128	74120	Refiner, chocolate
75224	74220	Rappiman	81218	82230	Refiner, lead
93295	93220	Reacher (drawer in assistant)	81218	82230	Refiner, metal
31337	81540	Reactor	81218	82230	Refiner, steel
34115	34320	Reader	32306	32410	Reflexologist
34115	34320	Reader to district	96121	91610	Refuse sorter
34115	34320	Reader( court)	81323	73444	Registerer, photo
23102	23102	Reader, academy (all subjects)	12118	12310	Registrar company
96231	91531	Reader, meter	22121	22210	Registrar, anaesthetics
23101	23102	Reader, university (all subjects)	12118	12310	Registrar, company
33342	34130	Realtor	11126	11252	Registrar, cooperative societies
24118	24110	Receiver, bankruptcy	11126	11252	Registrar, court
24118	24110	Receiver, official	22123	22210	Registrar, dermatology
42262	42220	Receptionist, medical/dental	22129	22210	Registrar, endocrinology
42241	42220	Receptionist, hotel	22129	22210	Registrar, gastroenterology
42261	42220	Receptionists	22129	22210	Registrar, geriatrics

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22129	22210	Registrar, gynaecology	72341	72312	Repairer, (bicycle/ pedal cycle/ wheelchair)
22129	22210	Registrar, intensive care	74218	72430	Repairer, audio-visual equipment
22129	22210	Registrar, internal medicine	71114	71292	Repairer, building
22118	22210	Registrar, medical: general medicine	73114	73110	Repairer, camera
22129	22210	Registrar, medical: specialist	73111	73110	Repairer, clock/watch
22128	22210	Registrar, neurology	75333	74360	Repairer, cloth/ Seamstress
22124	22210	Registrar, obstetrics	72338	72330	Repairer, construction machinery
22129	22210	Registrar, oncology	81411	82312	Repairer, cover (rubber)/ tyre (machine)
22129	22210	Registrar, ophthalmology	74128	72410	Repairer, electrical equipment
11126	11252	Registrar, other (government official)	74218	72430	Repairer, electronics equipment
22126	22210	Registrar, otorhinolaryngology	72326	72320	Repairer, engine: aircraft
22124	22210	Registrar, pediatrics	73184	74324	Repairer, fabrics
22129	22210	Registrar, psychiatry	72338	72330	Repairer, farm machinery
22129	22210	Registrar, radiology	75368	74420	Repairer, footwear
91296	91320	Removalist, graffiti	73122	73121	Repairer, instrument (guitar / violin/ musical (percussion)/musical (string)/musical (wind))
93334	93330	Remover, furniture	73114	73112	Repairer, instrument (surgical)
91296	91320	Remover, graffiti	73127	73120	Repairer, instrument: brass
93334	93330	Remover, household goods	73114	73110	Repairer, instrument: dental
32147	73113	Repairer (dental prosthesis/ instrument (dental)/ orthopaedic appliance)	73127	73120	Repairer, instrument: wind
93215	93220	Repairer (reed/heald/ plastic)	73137	73135	Repairer, jewellery
72342	72313	Repairer (tyre/tube)	72317	72310	Repairer, mechatronics
72245	72242	Repairer ,saw	72338	72330	Repairer, mining machinery
75367	74420	Repairer ,shoe	72317	72310	Repairer, moped
73112	73113	Repairer( precision/ optical/ meteorological barometer/ watch/balancer/ fountain pen)	72317	72310	Repairer, motor vehicle
71195	71292	Repairer(building/ chimney)	72344	72310	Repairer, perambulator
74128	72410	Repairer, wheelchair: motorized	73114	73110	Repairer, photographic equipment

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72247	72240	Repairer, saw	26565	34720	Reporter, weather
72338	72330	Repairer, stationary engine	33221	34150	Representative (sales)/ commercial
74221	72430	Repairer, telecommunications equipment	52236	52200	Representative, automobile leasing
74221	72430	Repairer, television/radio	11129	11200	Representative, diplomatic
72338	72330	Repairer, train engine	11129	11200	Representative, embassy
72317	72310	Repairer, tuk-tuk	33153	34170	Representative, insurance: assessor
74128	72410	Repairer, wheelchair: electric	33153	34170	Representative, insurance: claims
71258	71350	Repairer, windscreen	33214	34120	Representative, insurance: sales
73112	73113	Repairer,( instrument (mathematical/ scientific/educational/nautical)	35127	31210	Representative, internet helpdesk
81323	73444	Repairer/Joiner, film	35127	31210	Representative, internet support
93298	93210	Repairman ( armature/ coil/ transformer/ assembling)	11118	11100	Representative, legislative
72132	72131	Repairman (boiler maker)	24332	34150	Representative, medical
72339	72333	Repairman ,air valve	24343	34150	Representative, sales (computer hardware)
74221	72441	Repairman(telephone/telegraph/ computer)	24344	34150	Representative, sales (computer software)
82123	82820	Repairman, battery	24341	34150	Representative, sales (computer)
74128	72412	Repairman, electrical (motor/ electrical meter/ electrical office equipment)	24333	34150	Representative, sales (engineering/technical)
93126	93121	Repairman, track	24345	34150	Representative, sales (other ICT)
75337	74363	Repairman, umbrella	24342	34150	Representative, sales (telecommunication technology)
93344	93330	Replenisher, shelf	52236	52200	Representative, sales: automobile
93344	93330	Replenisher, stock	24337	34150	Representative, sales: industrial products
33432	34311	Reporter (administrative (court/verbatim)/ shorthand (verbatim)	24348	34150	Representative, sales: information technology
26426	24510	Reporter, crime	33214	34120	Representative, sales: insurance
26426	24510	Reporter, fashion	33226	34150	Representative, sales: manufacturing
26425	24513	Reporter, journalism/media (any subject)	24348	34150	Representative, sales: technical (ICT)
26426	24510	Reporter, news: TV/radio	35127	31210	Representative, technical: computer support
26565	34720	Reporter, traffic			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
52446	91130	Representative, telephone: canvassing for donations	44151	41411	Restorer, filing
21318	22110	Researcher, biomedical	26517	24520	Restorer, picture
21318	22110	Researcher, clinical	52217	13140	Retailer
24226	24190	Researcher, developing or analysing government policy	52217	13140	Retailer, internet
21338	22110	Researcher, environmental	52217	13140	Retailer, online
24226	24190	Researcher, health: policy	71325	71422	Retoucher (manufacturing)
42277	41900	Researcher, interviewing: market research	73218	73431	Retouches (negative/ printing plate/ lithographic/ photogravure)
42277	41900	Researcher, interviewing: surveys	44131	41430	Revisor, coding/ listing/ scripts (data- processing/statistics)
24318	24190	Researcher, market	21117	21115	Rheologist
42277	41900	Researcher, market: cold calling	22129	22210	Rheumatologist
42277	41900	Researcher, market: interviewing or conducting surveys	22129	22210	Rhinologist
42277	41900	Researcher, market: telephone	93312	93310	Rickshaw boy
21318	22110	Researcher, medical	62105	61410	Rider (timber) (market)
21318	22110	Researcher, midwifery	93313	93310	Rider ,bicycle
21318	22110	Researcher, nursing	34216	34750	Rider Motorcycle racing
26336	24430	Researcher, peace	34216	34750	Rider, horse sport
21119	21110	Researcher, physics	93313	93310	Rider, tricycle
26336	24430	Researcher, political	03100	01100	Rifleman
24226	24190	Researcher, reviewing policy	03100	01100	Riflewoman
21338	22110	Researcher, salinity	72151	72150	Rigger logging/ oil and gas well/ ski-lift/ railway cable)
26326	24420	Researcher, social	72151	72150	Rigger (aircraft/ ship / hoisting equipment (construction)
21338	22110	Researcher, water quality	71191	71290	Rigger (scaffolding)
21338	22110	Researcher, water resources	72156	72150	Rigger, theatrical
22118	22210	Resident, medical: general medicine	72156	72150	Rigger, tower
22129	22210	Resident, medical: specialist	72157	72150	Rigman,oil
14127	13150	Restaurateur	72146	72145	Riveter, (hydraulic/ pneumatic/ portable pinch/ aircraft repairing)
72327	72320	Restorer, aircraft			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93125	93121	Roadman (surveying)	95202	91120	Salesman (outside)
75154	74154	Roaster, (coffee/ coca-bean) (hand)	33113	34111	Salesperson (bond/securities)
81118	71110	Robber, timber: mine	52112	52301	Salesperson (kiosk/ street stall)
75166	74160	Roller, cigar	52111	52300	Salesperson (market)
73136	73134	Roller, precious metal	33343	34130	Salesperson (property/real- estate)
81218	81220	Roller, steel	52232	52200	Salesperson (wholesale establishment)
75128	74120	Roller, sugar confectionery	33222	34151	Salesperson ,commercial/travelling
31354	81210	Rolling mill control operator	52231	52200	Salesperson(shop/retail establishment)
71213	71310	Roofer (slate/ tile)	24334	34150	Salesperson, engineering/technical
71214	71310	Roofer (wood-shingle)	33397	34290	Salesperson, advertising
71211	71310	Roofer(asphalt/ composite materials)	52237	52200	Salesperson, automobile
71212	71310	Roofer(metal)	33397	34290	Salesperson, business services
73154	73221	Rougher (glass)	52446	91130	Salesperson, call centre
75361	74420	Rounder (Shoes)	52446	91130	Salesperson, canvassing on telephone
75368	74420	Rounder, footwear	52237	52200	Salesperson, car
52431	91130	Rounds man, distribution (retail)	52493	52200	Salesperson, car hire
73184	74311	Rover, fibre(textile)	24348	34150	Salesperson, communications technology
96218	91510	Runner, messages	24348	34150	Salesperson, computer systems
<b>S</b>			52435	91130	Salesperson, direct: door-to-door
51535	91410	Sacristan	24348	34150	Salesperson, information technology
75368	74420	Saddler	52446	91130	Salesperson, internet
75434	31526	Sadhai wala	52463	52200	Salesperson, kiosk: food service
34233	33402	Sailing Instructor	33222	34151	Salesperson, manufacturing
83503	83400	Sailor	52463	52200	Salesperson, market: food service
52422	52200	Sales merchandiser	52435	91130	Salesperson, party plan
24335	34151	Sales representative	52493	52200	Salesperson, rental
52431	91130	Sales representative, distribution (retail)			
52499	52200	Sales workers, n.e.c			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
52446	91130	Salesperson, telemarketing	81727	81410	Sawyer, wood processing plant
52446	91130	Salesperson, telephone	26523	24532	Saxophonist
52493	52200	Salesperson, video rental	71191	71290	Scaffolder, scaffolding
75116	74112	Salter (meat/fish/bacon)	62106	61411	Scaler (log) (market)
81609	82720	Salter, cheese	96135	91620	Scavenger
54115	51610	Salvage man, fire	44167	41900	Scheduler, crew
34133	34800	Salvationist	21323	32130	Scientist (agricultural )
31171	71114	Sampler (mine/ quarry)	21326	22131	Scientist (animal)
31178	71110	Sampler, coal	21321	22130	Scientist( Forestry)
81138	71110	Sampler, core	21338	22110	Scientist, air quality
31178	71110	Sampler, mine	21317	22112	Scientist, animal husbandry
31178	71110	Sampler, ore	21318	22110	Scientist, clinical
31178	71110	Sampler, underground	21338	22110	Scientist, computer modelling:
93293	93221	Sand washer (glass manufacturing)	21338	22110	salinity
71135	71134	Sandblaster	21338	22110	Scientist, conservation
73161	73230	Sandblaster ( glass decorating)	21324	22130	Scientist, crop research
71333	71432	Sandblaster (building exteriors)	25296	21390	Scientist, data mining
81225	82230	Sandblaster (castiligs)	21338	22110	Scientist, environmental
32572	32220	Sanitarian	21338	22110	Scientist, environmental
32573	31520	Sanitary patrol	21318	22110	research
03100	01100	Sapper, army	21318	22110	Scientist, food
26523	24532	Sarang	21318	22110	Scientist, health
34342	51220	Saucier	21328	22130	Scientist, horticultural
71135	71134	Sawyer	26226	24320	Scientist, information
75234	74232	Sawyer, (precision woodworking/ wood)/ Tuner/ borer( wood)	26222	24322	Scientist, information (business services)
81727	81410	Sawyer, edge	26223	24322	Scientist, information (technical information)
81148	73130	Sawyer, industrial diamonds	21318	22110	Scientist, medical
81727	81410	Sawyer, sawmill	26333	24432	Scientist, political
			21338	22110	Scientist, salinity
			26326	24420	Scientist, social

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
21325	22130	Scientist, soil			type)
21338	22110	Scientist, water quality	41202	41150	Secretary, confidential
21338	22110	Scientist, water resources	33426	41150	Secretary, conveyancing
81574	82644	Scourer	33443	41150	Secretary, dental
73185	74312	Scourer(wool)	33443	41150	Secretary, doctor's
96121	93210	Scrap merchant	11129	11200	Secretary, embassy
81126	81121	Screeener, minerals	33435	34390	Secretary, executive (consular office)
75166	74160	Screeener, snuff	33443	41150	Secretary, hospital ward
81124	81121	Screening plant (mining)/ tippler)	33426	41150	Secretary, litigation
44141	41440	Scribe	33443	41150	Secretary, medical
26518	24520	Sculptor	33443	41150	Secretary, medical insurance billing
23554	23590	Sculpture teacher	33443	41150	Secretary, medical laboratory
81514	82610	Scutcher tenter/	33426	41150	Secretary, paralegal
03100	01100	Sea women, navy	33443	41150	Secretary, patient care
83503	83400	Seaman (able/ ordinary)	24325	24190	Secretary, press
03100	01100	Seaman, navy	41203	41150	Secretary, union council
73186	74322	Seamer, garments (hand)	41201	41150	Secretary/ Stenography
34117	34320	Searcher, title	11144	11430	Secretary-general human rights
23534	33400	Second language teacher	11144	11430	Secretary-general humanitarian
12198	12312	Secretary (executive), company	11144	11430	Secretary-general red crescent
11125	11242	Secretary (Ist/ IInd)	11144	11430	Secretary-general special- interest organisation
41201	41150	Secretary (typing/ word processing)	11144	11430	Secretary-general wild life protection
11118	11100	Secretary of state	11144	11430	Secretary-general red cross
11115	11106	Secretary parliamentary committee	11141	11410	Secretary-general, political party
34224	34753	Secretary racing and handicapper	11142	11420	Secretary-general, employers' organization
11123	11221	Secretary( government official)	11144	11430	Secretary-general, environment protection
11123	11221	Secretary(deputy/joint)/ additional),government official			
33431	34310	Secretary, administrative (any			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
11129	11200	Secretary-general, government administration	74218	72430	Servicer, audio-visual equipment
11142	11420	Secretary-general, trade union	74221	72430	Servicer, communications technology
83503	83400	Secunny	74128	72410	Servicer, electrical equipment
24133	24190	Securities consultant	74214	72431	Servicer, electronics equipment (audio-visual)
21146	21140	Seismologist	72231	72230	Setter (capstan-lathe/ machine tool/ metalworking machine)
73185	74312	Selector, cotton	81542	82640	Setter (dye)
52113	52301	Seller (coupon)	71221	71320	Setter (floor/wall)
52447	91130	Seller, E-bay	71254	71350	Setter glass (buildings)
35216	31320	Semaphone	71255	71351	Setter, artistic (glass)
26434	24443	Semasiologist	51314	51234	Setter, canteen/ restaurant
11111	11104	Senator	73138	73130	Setter, gem
81126	81121	Separator, screener, minerals	73138	73130	Setter, jewels
33555	34500	Sepoy , ranger police	81521	74323	Setter, knitting-machine
83503	83400	Serang	71225	71320	Setter, marble
54142	51690	Sergeant, (security)	71143	71232	Setter, steel (reinforced concrete)
02100	01100	Sergeant, army	71225	71320	Setter, tile
33558	34500	Sergeant, detective	75231	74230	Setter, woodworking machine
02100	01100	Sergeant, flight	81521	74323	Setter.loom(lace machine)
54125	51620	Sergeant, police	81812	81312	Setter-in, kiln (ceramics)
02100	01100	Sergeant-major	75232	74231	Setter-operator( carving/ planing/ routing machine (woodworking))
61231	61230	Seri culturist(market)	75233	74231	Setter-operator(saw (fret/jig)/ shaping machine/ lathe (woodworking)/ woodworking machine))
51514	51211	Servant (hostel/resthouse)			
51522	51210	Servant (house)			
03100	01100	Serviceperson, defense forces	72232	72231	Setter-operator, (boring/ drilling/ cutting/ die-sinking) machine (metalworking)/machine tool
91296	91320	Serviceperson, filter			
91296	91320	Serviceperson, swimming pool: cleaning	72234	72231	Setter-operator, (lathe/milling/ engine-lathe/turret-lathe/ buffing/ armature production)
74221	72441	Servicer(radio/television)			
74221	72441	Servicer(telephone/ telegraph/ computer)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
72235	72231	Setter-operator, (planing/ reaming/ routing/ shaping/ numerical control/ toy production/ sawing)	61214	61210	Shearer, sheep(market)
73226	82512	Setter-operator, casting machine (printing type)	81213	81222	Shearman, (metal)
73157	73224	Setter-operator, lathe (glass)	43231	41330	Shed man
71138	71220	Setter-operator, lathe: stone	61213	61211	Shepherd(market)
72234	72230	Setter-operator, precision- grinding machine: metal working	63205	62100	Shepherd: subsistence farming
72124	72123	Setter-operator, soldering (metal)	81225	82231	Sherardiser
72127	72120	Setter-operator, soldering: jewellery	95101	91200	Shiner. shoe
			83505	83401	Ship's boy
			33243	34210	Shipbroker
			72145	72144	Shipwright(metal)
			71158	71240	Shipwright, wood
72233	72231	Setter-operator,(extruding/ grinding/ honing/ lapping/ boiling/ punching/ spinning/ cutting/ wire	31177	31172	Shooter, oil and gas wells
75334	74360	Sewer ( leather hand/ mattress / upholstery)	71158	71240	Shopfitter
75334	74360	Sewer (drapery/ elastic/ footwear (hand)/ fur (hand))	52217	13140	Shopkeeper
75334	74360	Sewer( garments/ textile/ hat/ leather)	52212	13143	Shopkeeper (Retailer )
73231	73450	Sewer, bookbinding	14204	13140	Shopkeeper (wholesale)
75367	74423	Sewer, saddle	71192	71290	Shorer, construction
61228	61220	Sexer, chicken (market)	71138	71220	Shotblaster, stonecutting
51532	91410	Sexton	75423	71120	Shotfirer
75115	74111	Shactor offal	93124	93120	Shoveller
81514	82610	Shaker, dust/	81218	81210	Shredder, scrap metal
72245	72242	Sharpener (cutting instruments)	83124	83121	Shunter, Train
72247	72240	Sharpener, knife	71142	71233	Shutterer (concrete)
72247	72240	Sharpener, saw	31544	31440	Signaller, air traffic
72247	72240	Sharpener, tool	35219	31320	Signaller, telegraph
75357	74412	Shaver, fur	83125	83121	Signaller, Train
			73165	73240	Signpainter
			73165	73240	Signwriter
			81603	82731	Silkman, grain milling

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73164	73240	Silverer (glass/mirror)	62228	61520	Skipper, coastal fishery (market)
21321	22130	Silviculturist	62235	61530	Skipper, trawler(market)
26524	24533	Singer (street/night-club)	75367	74420	Skiver ,shoe
26523	24533	Singer ,bass	75223	74220	Skiver, monarch
26523	24533	Singer ,choir	75365	74420	Skiver/Socker/ Splitter/ Stitcher/Trimmer/Repairer/Finis her), Shoe
26523	24533	Singer ,concert	75111	74110	Slaughterer
26523	24533	Singer ,jazz	75357	74412	Sleeker, feather
26523	24533	Singer ,opera	75498	73220	Slicer, optical glass
26523	24533	Singer ,popular music	83435	83336	Slinger (crane)
26527	34730	Singer, nightclub	81213	81222	Slitter (metal)
26527	34730	Singer, street	75493	73222	Slitter (optical glass)
23542	23590	Singing teacher	83436	83337	Sluice man, dock
72224	72221	Sinker(die)/bench	73131	73130	Smith (gold/silver/pewter)
81138	81130	Sinker, bore	72133	72131	Smith(boiler/ copper/ tin)
81138	71360	Sinker, well	72213	72212	Smith(spring/ knife/ tool/ bulldozer)
81114	71110	Sirdar colliery	72218	72210	Smith, anvil
34135	34800	Sister religious	73138	73130	Smith, hammer: precious-metal articles
22217	22300	Sister, nursing (professional)	73138	73130	Smith, pewter
32211	32310	Sister, nursing, associate professional	75116	74112	Smoker, meat/fish
22218	22300	Sister, operating theatre	34123	34600	Social welfare worker(community/culture centre
26523	24532	Sitar player	34123	34600	Social welfare worker (medical/ mental/other specialism)
31232	12230	Site manager (construction)	34123	34600	Social welfare worker (blind/recovery of lost children
53115	51310	Sitter, baby	34123	34600	Social welfare worker, maternity and child (associate professionals)
34215	34750	Skier	26354	24460	Social/welfare worker, any other specialism (professional)
61233	61232	Skilled worker (Apiary, beekeeping, Sericultural) (market)			
81211	81211	Skimmer			
75111	74110	Skinner, animal			
31523	31421	Skipper) yacht			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
26353	24460	Social/welfare worker, community/cultural (professional) centre	44121	41420	Sorter, clerical (mail/postal service)
			75368	74420	Sorter, footwear
26352	24460	Social/welfare worker, medical, psychiatric (professional)	96122	91610	Sorter, garbage
26321	24420	Sociologist, any specialism	41102	41902	Sorter, record
75367	74420	Socket,shoe	96122	91610	Sorter, recycling
81608	82784	Soda room man (liquors)	34342	51220	Sous-chef
81514	82610	Softener attendant (jute)/	11117	11108	Speaker (deputy)
25122	21310	Software designer	24318	24190	Specialist, advertising
25123	21310	Software developer	21323	32130	Specialist, agricultural extension
25192	21310	Software tester	23514	23512	Specialist, audio-visual and other teaching aids
23562	23590	Software trainer	24214	24193	Specialist, business efficiency
72127	72120	Solderer	22305	32410	Specialist, chinese medicine
72124	72123	Solderer (any type)	21328	22130	Specialist, crop
03100	01100	Soldier	22503	22230	Specialist, dairy
03100	01100	Soldier, infantry	23517	23510	Specialist, education: methods
03100	01100	Soldier, recruit	22128	22210	Specialist, emergency medicine
02100	01100	Soldier, sergeant major	21436	21490	Specialist, environmental remediation
02100	01100	Soldier, warrant officer	31128	31512	Specialist, fire prevention
01100	01100	Soldier: captain	51413	51410	Specialist, hair care
26113	24211	Solicitor	24118	24110	Specialist, insolvency
71231	71330	Solid Plasterer	22128	22210	Specialist, intensive care
51315	51230	Sommelier	22128	22210	Specialist, internal medicine
32116	31330	Sono grapher	24318	24190	Specialist, marketing
26527	24530	Soprano	22128	22210	Specialist, medical
26524	24533	Soprano/ Tenor/ Kawal	25138	21390	Specialist, multimedia
75434	31526	Sorter (cigarettes)	25225	21310	Specialist, network: computing (managing system)
75315	74340	Sorter ,fur	24233	24120	Specialist, personnel and occupational
93291	93221	Sorter, (bottle/ Rag)			
75163	74162	Sorter, cigar			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22128	22210	Specialist, preventive medicine	91216	91330	Spotter, dry-cleaning
21332	22113	Specialist, range management	31537	31430	Sprayer, crop: aerial
24313	24192	Specialist, sales promotion methods	75446	71430	Sprayer, crops (except aerial)
24318	24190	Specialist, sales: promotion (methods)	75446	71430	Sprayer, herbicide
54148	51690	Specialist, security (except computer)	75446	71430	Sprayer, insecticide
25295	21390	Specialist, security: data	75446	71430	Sprayer, malaria control
25295	21390	Specialist, security: ICT	71328	71420	Sprayer, metal
23517	23510	Specialist, visual: teaching aids	75446	71430	Sprayer, pesticide
24246	24120	Specialist, workforce development	75446	71430	Sprayer, weed
22664	32290	Speech pathologist	71318	71410	Spray-painter, construction
22663	32292	Speech therapist	73166	73240	Spray-painter, decorative painting
73136	73134	Spinner (gold/ precious metal)	71328	71420	Spray-painter, manufactured articles
72237	72233	Spinner (metal)	81542	82643	Squeezer (textile),
73186	74321	Spinner (mule/ring/ thread and yarn)	92126	92110	Stable lad
81515	82611	Spinner (ring wool/ jute/ silk)	93134	93130	Stacker (building construction)
72154	72153	Spinner/ Squeezer, cable/wire	93345	93330	Stacker, shelf
73188	73321	Splicer (leather products)	72157	72150	Stagehand
72152	72151	Splicer, (thread/ cable and rope)	75368	74420	Stainer, footwear
75326	74354	Splicer, bias	75357	74412	Stainer, leather
71131	71130	Splitter (stone)	75228	74220	Stainer, wooden furniture
75111	74110	Splitter( carcass)	52115	52300	Stallholder, market
75354	74411	Splitter, hide	52121	91110	Stall-holders
75367	74421	Splitter, shoe	73165	73240	Stamper (ceramics decorating)
62223	61520	Sponge hooker(market)	73223	82510	Stamper (heraldic printing)
26562	34720	Sports anchor	93294	93221	Starch mixer
34215	34750	Sportsman	91211	91330	Starcher
34215	34750	Sportswoman	34223	34753	Starter ,sports
			13244	12263	Station master, railway

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
35219	31320	Station Telegrapher (railway)	51114	51110	Stewardess, ship
81608	82784	Steeper, making	75118	74110	Sticker, animal
71193	71290	Steeplejack	96297	91200	Sticker, bill
75163	74161	Stemmer(tobacco)	73141	73210	Sticker-up (pottery/ pottery spout)
73166	73240	Stenciller, ceramics decoration	93345	93330	Stocker, shelf
41319	41111	Steno typist	81523	82620	Stocking ribber)
41312	41111	Stenographer (general/ specialized )	61213	92111	Stockman (livestock) (market)
33427	41150	Stenographer, legal	61213	92110	Stockman, beef cattle(market) (market)
33445	41150	Stenographer, medical	61213	92110	Stockman, sheep(market)
73216	73420	Stereotyper	61213	92110	Stockwoman, beef cattle(market)
93335	93330	Stevedore	61213	92110	Stockwoman, livestock(market)
51515	51211	Steward (chief) (hotel)	61213	92110	Stockwoman, sheep(market)
14123	13150	Steward (chief)/manager, restaurant	81822	81621	Stoker( ship)
34223	34753	Steward (race tract)	22616	22220	Stomatologist
51111	51110	Steward(ess)air crew/aircraft/ ship/ bus/train	73216	73410	Stonehand, printing
51522	51210	Steward(house)	71136	71134	Stonemason (construction/paving)
51114	51110	Steward, cabin	71136	71134	Stoneworker(layout)
51114	51100	Steward, chief: ship	43216	41310	Storekeeper
51518	51210	Steward, hotel	26552	24552	Story-teller (any medium)
94125	91320	Steward, kitchen	75163	74161	Stover(tobacco)
51312	51231	Steward, mess/ ship (food/wine)	81213	81222	Straightener, (metal)
51315	51230	Steward, ship: dining saloon	31336	81532	Strainer, chemical and related materials
51114	51110	Stewardess, cabin	12132	12390	Strategic planning manager
51114	51100	Stewardess, chief: ship	24228	24190	Strategist
51518	51210	Stewardess, hotel	21146	21140	Stratigrapher
51518	51210	Stewardess, house	52121	91110	Street salesperson (food)
94125	91320	Stewardess, kitchen	75357	74412	Stretcher( leather/ pelt)
51315	51230	Stewardess, mess	81542	82643	Stretcher, (textile)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
93296	93220	Striker (blacksmith)	33521	34420	Superintendent, (tax)
75163	74161	Stringer (tobacco)	51535	91410	Superintendent, building
73128	73120	Stringer, piano	43232	41331	Superintendent, clerical (road transport service)
62243	61540	Stripper(blubber) (market)	43238	41310	Superintendent, clerical: barge
73187	74321	Stripper(bobbin)	43238	41310	Superintendent, clerical: cargo
75163	74161	Stripper(tobacco)	43238	41310	Superintendent, clerical: ferry
62108	61410	Stripper, cork bark(market)	43238	41310	Superintendent, clerical: quay
75115	74111	Stripper, gut	43238	41310	Superintendent, clerical: water transport (terminal)
26534	34730	Stripper, nightclub	43238	41310	Superintendent, clerical: wharf
81552	82651	Stuffer( leather)	31233	12230	Superintendent, construction
92152	92120	Stump-grubber	21646	21412	Superintendent, divisional (railway)
75111	74110	Stunner (animal)	21326	22132	Superintendent, garden
34357	34740	Stuntman	14117	13151	Superintendent, hostel/matron school
01100	01100	Sub lieutenant, navy	11122	11212	Superintendent, jail
03100	01100	Submariner, navy	13243	12260	Superintendent, maintenance (air transport)
63402	62100	Subsistence collector	22116	22210	Superintendent, medical
63201	62100	Subsistence livestock farmer	13424	22300	Superintendent, nursing (asst)
26437	24440	Subtitled	11122	11211	Superintendent, police (additional/deputy)
73131	73130	Sunar	13248	12260	Superintendent, rail operations
61212	13111	Superintendent ( dairy farm) (market)	21647	21412	Superintendent, road transport
13243	12260	Superintendent (deputy), (airport)	13245	12260	Superintendent, stevedoring
33511	34410	Superintendent (deputy), customs	51122	51120	Superintendent, travelling ticket examiner
61117	13111	Superintendent (farm) (market)	13458	12294	Superintendent, vaccine institute
31513	31410	Superintendent (marine/technical)	52221	52200	Supermarket supervisor
32563	32214	Superintendent (vaccination/ sanitary)	51532	91412	Supervisor (auqaf property)
43232	41331	Superintendent, railway transport service/ traffic investigation	35221	31322	Supervisor (control room (radio/television)/control transmission (broadcasting))
31523	31421	Superintendent, (marine/deck)	54142	51690	Supervisor (gate/yard)
			61134	61131	Supervisor (nursery) (market)
			32592	32262	Supervisor (orthopedic workshop)
			31221	82630	Supervisor (sewing machine)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31222	81710	Supervisor , pharmaceutical (manufacturing)	31226	81710	Supervisor, spinning (textile) (manufacturing)
31227	81710	Supervisor ,film	31226	81710	Supervisor, winding and twisting(manufacturing)
31228	12221	Supervisor and general foreman (general)	21328	32130	Supervisor, agricultural extension
31228	12221	Supervisor and general foreman (beverage making)	51533	91410	Supervisor, air field (caretaker aerodrome)
31231	12230	Supervisor and general foreman (building and construction work)	33411	41331	Supervisor, air transport service
31228	12221	Supervisor and general foreman (clothing manufacturing)	72328	72320	Supervisor, aircraft maintenance
31228	12221	Supervisor and general foreman (electrical equipment manufacturing, installation and repairing)	26563	34720	Supervisor, announcer
31228	12221	Supervisor and general foreman (electronic equipment manufacturing and repairing)	31224	82800	Supervisor, assembly
31228	12221	Supervisor and general foreman (fabrication of products of paper, plastic etc.)	31224	82820	Supervisor, assembly: electrical products
31228	12221	Supervisor and general foreman (fell mongering)	31224	82830	Supervisor, assembly: electronic products
31228	12221	Supervisor and general foreman (glass and ceramics manufacturing)	31224	82810	Supervisor, assembly: mechanical products
31228	12221	Supervisor and general foreman (manufacturing of machinery and metal products)	31224	82840	Supervisor, assembly: metal products
31228	12221	Supervisor and general foreman (welding)	31224	82860	Supervisor, assembly: paperboard products
61117	13111	Supervisor(farm) (market)	31224	82840	Supervisor, assembly: plastic products
62107	61412	Supervisor(forest) (market)	31224	82840	Supervisor, assembly: rubber products
31225	81710	Supervisor, brewing(manufacturing)	31224	82860	Supervisor, assembly: textile products
31224	81710	Supervisor, house(manufacturing) melt	31224	82850	Supervisor, assembly: wood products
31221	81710	Supervisor, packaging	31224	81710	Supervisor, automated assembly line
31224	81710	Supervisor, house(manufacturing) pulp	75163	74163	Supervisor, bidi maker
31225	81710	Supervisor, refining(manufacturing)	31233	71290	Supervisor, building operations
			31233	71290	Supervisor, building project
			33417	42220	Supervisor, call centre
			33417	34390	Supervisor, clerical
			33418	42220	Supervisor, contact centre

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
33412	12342	Supervisor, correspondence section	12216	12334	Supervisor, sales (regional or overseas)/ (wholesale/retail trade)
33127	34190	Supervisor, credit: assessing credit or finance	52223	52200	Supervisor, sales assistants
31222	81710	Supervisor, dairy products (manufacturing)	31216	71110	Supervisor, shift: mining
33417	41130	Supervisor, data entry	52224	52200	Supervisor, shop
12197	12311	Supervisor, documentation (water transportation)	33417	42220	Supervisor, switchboard
31156	31154	Supervisor, dry dock	33412	41331	Supervisor, telecommunications services
31225	81710	Supervisor, drying machine (manufacturing)	33418	42230	Supervisor, telegraph /telephone exchange
33417	41410	Supervisor, filing clerks	33417	41110	Supervisor, typist
31223	81710	Supervisor, filtration(manufacturing)	31216	71110	Supervisor, underground: mine
31224	82900	Supervisor, finishing	31125	31120	Supervisor, water and sewer system
31221	81710	Supervisor, fun laboratory	34128	34600	Supervisor, women's shelter
33413	41332	Supervisor, goods (railway)	33417	41120	Supervisor, word processing
51513	51210	Supervisor, housekeeping (except private service)	51517	51214	Supervisor/ Warden (dormitory/ camp)
42278	41900	Supervisor, market research: interviewing	93295	93221	Supplier, type
32525	41430	Supervisor, medical records unit	35127	31210	Support, computer
31222	81710	Supervisor, mill(manufacturing)	35127	31210	Support, internet
31216	71110	Supervisor, mine	22128	22210	Surgeon .any specialism(except dental)
31223	81710	Supervisor, paint and varnish(manufacturing)	22122	22210	Surgeon, cardiology
31227	81710	Supervisor, perfumes(manufacturing)	22122	22210	Surgeon, cardiothoracic
33417	41900	Supervisor, personnel clerks	22616	22220	Surgeon, dental
33418	41420	Supervisor, postal services	22616	22220	Surgeon, maxillofacial
31216	71110	Supervisor, production: mining	22129	22210	Surgeon, medical
34332	34712	Supervisor, publication	22128	22210	Surgeon, neurosurgery
31216	71110	Supervisor, quarry	22616	22220	Surgeon, oral
33414	41331	Supervisor, road transport service	22128	22210	Surgeon, orthopaedic
31228	82310	Supervisor, rubber (goods/ reclamation)/ plastic products/ paper products	22128	22210	Surgeon, osteopathic
			22128	22210	Surgeon, plastic

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
22128	22210	Surgeon, thoracic	25221	21310	System administrator
22507	22231	Surgeon, veterinary	25111	21312	Systems analyst, (IT)
22405	32210	Surgical technician	25113	21310	Systems consultant
11128	11272	Surveyor (deputy/assistant), general	25114	21310	Systems designer (IT)
21656	21480	Surveyor Geodesic/ hydrographic	25192	21310	Systems tester
21659	21480	Surveyor, (railways/ topographic/ air)	<b>T</b>		
21656	21480	Surveyor, aerial	22302	32290	Tabib
31124	31510	Surveyor, building	93294	93221	Table man (textiles)
21654	21480	Surveyor, general/ cadastral/ land	75311	74330	Tailor (garment (ready-to-wear)/ instrument covers/theatrical)
21656	21480	Surveyor, hydrographic	75311	74330	Tailor (Kaj) button/dress/gown /alteration/fur)
21656	21480	Surveyor, land	75311	74330	Tailor(bespoke/ garment (made- to-measure)
31156	31153	Surveyor, marine	75311	74330	Tailor, theatrical
31158	31150	Surveyor, marine	75367	74423	Taker-off ,shoe finishing
42278	41900	Surveyor, market research	73221	73413	Taker-off, printing press
21657	21480	Surveyor, mining	26362	24601	Talapoin
21658	21480	Surveyor, photogrammetric	26594	34743	Tamer/trainer, wild animal
21656	21480	Surveyor, photographic	75126	74120	Tandorchi
21496	21497	Surveyor, quantity	81606	82760	Tankman (sugar)
42278	41900	Surveyor, telephone	75213	74212	Tankman (wood treating)
21656	21480	Surveyor, topographic	75357	74412	Tanner (hide/leather)
92156	92120	Swamper, logging	26197	24290	Tapedar
96131	91620	Sweeper	61123	61124	Tapper (fruit tree) (market)
96133	91620	Sweeper (factory machines)	81211	81210	tapper (ore smelting and refining)
96131	91620	Sweeper (park/street/yard)	72116	72111	Tapper man, (metal casting)
96132	91620	Sweeper (sewerage cleaner)	81214	81220	Tapper, furnace (metal melting)
91128	91320	Sweeper, floor	61126	61120	Tapper, maple: syrup(market)
91292	91321	Swimming pool cleaner	61126	61120	Tapper, pine: resin(market)
83123	83122	Switch tender (railway yard)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
61126	61120	Tapper, rubber(market)	23109	23103	Teacher, post -secondary education (all subjects)
61126	61120	Tapper, toddy(market)	23422	33200	Teacher, pre-primary education (associate professional)
71156	71240	Tarkhan	23422	23320	Teacher, pre-primary education (professional)
75152	74151	Taster, (food /coffee/tea /juice/ ( liquor/ wine))	23411	33100	Teacher, primary education/ reading/ writing ( associate professional)
34351	34712	Tattooist	23411	23310	Teacher, primary education/ reading/ writing (professional)
24115	24110	Tax accountant	23521	23400	Teacher, remedial (professional/ associate)
83223	83221	Taxi driver	23555	23590	Teacher, sculpture: private tuition
34334	32110	Taxidermist	23301	23200	Teacher, secondary education (all subjects)
21316	22110	Taxonomist	23543	23590	Teacher, singing: private tuition
21317	22112	Taxonomist (animal)	23522	23400	Teacher, special education for the blind (professional/associate)
23592	23590	Teacher(private academy)	23523	23400	Teacher, special education for the deaf / dumb (professional associate)
23555	23590	Teacher, drama: private tuition	23524	23400	Teacher, special education for the physically/ mentally handicapped (professional/associate)
23536	23590	Teacher, EFL	23525	23400	Teacher, special education remedial (professional/ associate)
23536	23590	Teacher, English as a second language	23527	23400	Teacher, special education: learning disabilities
23536	23590	Teacher, ESL	23201	23201	Teacher, technical training
23303	23202	Teacher, faith (other)	23109	23100	Teacher, university
23108	23103	Teacher, government department training schools	23202	23100	Teacher, vocational training
23421	23320	Teacher, kindergarten/ nursery (professional)	23302	23202	Teachers, dar-ul-uloom
23421	33200	Teacher, kindergarten/ nursery( associate professional)	51311	51230	Teaman,food/ wine
23527	23400	Teacher, learning support	73184	74320	Teaser, (textile)
26527	24535	Teacher, music (private)	31431	32121	Technician ( silviculture/ forestry)
23543	23590	Teacher, music: private tuition	31411	32110	Technician ( histology/ botany)
23527	23400	Teacher, of gifted children			
23527	23400	Teacher, of the hearing impaired			
23527	23400	Teacher, of the sight impaired			
23304	23203	Teacher, oriental schools/colleges			
23555	23590	Teacher, painting: private tuition			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
31421	32120	Technician (agronomy/crop research/ olericulture)	31165	31161	Technician, (agricultural/ production engineering)
32112	31332	Technician (audiometric/ medical (X-ray))	31132	31130	Technician, (electrical laboratory/illumination)
31412	32111	Technician (bacteriology/serology/ cytology /media preparation)	31163	31160	Technician, (leather/ paint/ paper/ plastics/ rubber/ wood)
31413	32111	Technician (biophysics/ biology)	31171	31170	Technician, (mining-engineering (any specialism))
35131	31216	Technician (computer/engineering systems)	32122	32110	Technician, (pharmacology /tissue)
31112	31112	Technician (geology/geophysics/ meteorology/oceanography)	32304	32410	Technician, acupuncture
33141	34340	Technician (mathematical/statistical)	31551	31450	Technician, air traffic safety
32121	32110	Technician (medical laboratory)/genetics	32598	32290	Technician, anaesthesia
32143	32262	Technician (orthopedic/prosthetic)	31425	32130	Technician, aquaculture
35215	31315	Technician (sound (radio/television studio)/ sound-effects/ sound-testing)	72318	72310	Technician, automotive brakes systems service
31421	32120	Technician , pomology/ arboriculture/ soil science)	74216	72430	Technician, avionics
31122	31120	Technician ,civil	32304	32410	Technician, ayurvedic
32122	32112	Technician ,haematology	35215	31320	Technician, broadcasting
31123	31120	Technician ,research laboratory	22406	32210	Technician, caesarean section
31413	32111	Technician( ecology)	91297	91320	Technician, carpet cleaning
31413	32110	Technician( physiology )	31161	31160	Technician, chemical-engineering (petroleum)/ (process)
32112	31333	Technician( electrocardiograph/ electroencephalograph)	31338	31160	Technician, chemical process/ Technician, hot cell
32122	32112	Technician(blood-bank/ anatomy)	74227	72440	Technician, communications: telecommunications
31112	31112	Technician(chemistry/physics/ astronomy)	35128	31210	Technician, computer support
31412	32111	Technician(Cultureman, dairy)	74227	72430	Technician, computer: hardware
31421	32120	Technician(horticulture/ floriculture/	35133	31210	Technician, computer: network
22405	32113	Technician(operation theatre// surgical)	35128	31210	Technician, computer: user support
31132	31130	Technician(power generation and transmission (electricity))	35222	31322	Technician, control room (radio and television broadcasting)
31413	32111	Technician(zoology/biochemistry/ genetics)	31425	32120	Technician, crop research
			34335	34710	Technician, curatorial



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
35128	31210	Technician, customer service support: computing	31158	31150	Technician, engineering: nuclear power
31425	32130	Technician, dairy	31178	31170	Technician, engineering: petroleum and natural gas extraction
81326	73440	Technician, darkroom	31147	31140	Technician, engineering: semiconductors
32526	41430	Technician, disease registry	31158	31150	Technician, engineering: ship (construction)
32136	32280	Technician, dispensing	35114	31210	Technician, engineering: systems (computers)
71268	71360	Technician, drain	31425	32130	Technician, field crop
73216	73410	Technician, electronic pre-press	62214	61510	Technician, fishing(market)
32581	51320	Technician, emergency medical	31195	31190	Technician, forensic science
35128	31210	Technician, end user: computing	31433	32120	Technician, forest survey
31142	31142	Technician, engineering (aerospace)	34335	34710	Technician, gallery
31191	31190	Technician, engineering (industrial efficiency/methods)	31125	31510	Technician, geotechnical
31162	31160	Technician, engineering (natural gas production and distribution)/ (petroleum)	32526	41430	Technician, health information
31192	31190	Technician, engineering (time and motion study/work study/	35128	31210	Technician, helpdesk: computing
31192	31193	Technician, engineering( safety)	31414	32110	Technician, herbarium
31192	31191	Technician, engineering(industrial layout)	32304	32410	Technician, homeopathy
31191	31190	Technician, engineering(planning/ systems (except computers)	81313	81594	Technician, hot cell / Operator (bleacher (chemicals
31192	31192	Technician, engineering(production)	32556	32260	Technician, hydrotherapy
31192	31194	Technician, engineering(value)	35128	31210	Technician, internet helpdesk
31125	31120	Technician, engineering: civil	31155	31151	Technician, laboratory (mechanical) / quality control (mechanical)/ engineering (any specialism)
31147	31140	Technician, engineering: computer hardware design	34335	34390	Technician, library
31147	31140	Technician, engineering: instrumentation	31414	32110	Technician, life science
31158	31150	Technician, engineering: internal combustion	31158	31150	Technician, mechatronics: engineering
31158	31150	Technician, engineering: marine	72318	72310	Technician, mechatronics: servicing motor vehicles
31158	31150	Technician, engineering: mechatronics	32117	31330	Technician, medical radiography
31158	31150	Technician, engineering: naval			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
		equipment	31193	31195	Technician, quantity surveying
32526	41430	Technician, medical records	32117	31330	Technician, radiation therapy
31171	31170	Technician, metallurgy (any specialism)	31348	81550	Technician, refinery process
72318	72310	Technician, motor vehicle engine and fuel systems service	32598	32290	Technician, respiratory therapy
72318	72310	Technician, motor vehicle mechatronics service	31391	31230	Technician, robot
72318	72310	Technician, motor vehicle service	31195	31230	Technician, robotics
32117	31330	Technician, MRI	32117	31330	Technician, scanning equipment: medical
34335	34710	Technician, museum	35128	31210	Technician, software
35133	31210	Technician, network support	31425	32120	Technician, soil science
32117	31330	Technician, nuclear medicine	35215	31310	Technician, sound-testing
31425	32120	Technician, olericulture	34358	34740	Technician, special effects
32148	73110	Technician, orthotic	34358	34740	Technician, stage
32122	32110	Technician, pathology/hispatology/	91297	91320	Technician, swimming pool: cleaning
75447	71430	Technician, pest control	34358	34740	Technician, theatre
32134	32280	Technician, pharmaceutical	31414	32110	Technician, tissue culture
32136	32280	Technician, pharmacy	32407	32270	Technician, veterinary
74216	72430	Technician, photocopy machine	35215	31310	Technician, video
32556	32260	Technician, physical rehabilitation	35146	31210	Technician, website
31414	32110	Technician, physiology	31414	32110	Technician, wildlife
32556	32260	Technician, physiotherapy	32511	32250	Technician/hygienist (dental/oral)
31414	32110	Technician, plant breeding	21428	21421	Technologist (building materials/ civil works)
32117	31330	Technician, polysomnography	21452	21461	Technologist (fiber / paper)
31425	32120	Technician, pomology	21451	21460	Technologist (fuel/ chemical process)
91297	91320	Technician, pool: cleaning	32118	31330	Technologist (medical/chief radiologic)
31425	32130	Technician, poultry	21455	21461	Technologist (sugar cane)
31348	81550	Technician, process control: coal gas production	21458	21461	Technologist ,fiber(animal)
31394	81420	Technician, pulping	21458	21460	Technologist, brewing

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
32118	31330	Technologist, cat- scan	72116	72111	Teemer (metal casting)
21497	21495	Technologist, cement/ glass/ceramics/ leather/ textiles/ wood	26197	24290	Tehsildar
32118	31330	Technologist, computer aided tomography	21536	21443	Telecommunication- engineer, cable
32118	31330	Technologist, ct scan	21533	21442	Telecommunication- engineer, radar/signal systems
21525	21440	Technologist, engineering (electronics)	21534	21442	Telecommunication- engineer, radio/television/satellite TV
21516	21431	Technologist, engineering (electrical)	21535	21442	Telecommunication- engineer, telephone/mobile/internet
21445	21450	Technologist, engineering: mechanical	21537	21443	Telecommunication-engineer, under water cable
21538	21440	Technologist, engineering: telecommunications	35223	31141	Telecommunication-engineering technician (aerospace/other/radar/ signal systems/radio/television/ telegraph/telephone/other)
21464	21472	Technologist, extractive	21531	21441	Telecommunications engineer, aerospace
21453	21461	Technologist, food and drink	21538	21440	Telecommunications engineers (other)
31433	32120	Technologist, forestry	35225	31320	Telegrapher
25117	21310	Technologist, information: business analysis	35219	31320	Telegrapher/Telegraphist, testing
25225	21310	Technologist, information: systems administration	52441	91130	Telemarketer
32118	31330	Technologist, magnetic resonance imaging	52441	91130	Telemarketing salesperson
32118	31330	Technologist, medical imaging	42232	42230	Telephonist
32118	31330	Technologist, MRI	42111	42110	Teller, bank
32118	31330	Technologist, neurodiagnostic	42114	42120	Teller, other
32118	31330	Technologist, nuclear medicine	75128	74120	Temperer, chocolate
21499	21495	Technologist, other	81824	81620	Tender, boiler
21418	21490	Technologist, packaging	81123	81120	Tender, jig
32118	31330	Technologist, polysomnography	83507	83400	Tender, lighthouse
21498	21490	Technologist, printing	61228	61220	Tender, poultry(market)
32118	31330	Technologist, radiation therapy	83438	83330	Tender, skip
21445	21450	Technologist, welding	75217	74210	Tender, veneer dryer
21454	21461	Technologist. Paint/ plastics/ polymer/ tyre/ rubber	31329	81637	Tender, water dam

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
75224	74223	Tenoner	26358	24460	Therapist, family
26527	24530	Tenor	32557	32260	Therapist, hydrotherapy
81514	82610	Tenter (textiles)/	22693	32260	Therapist, inhalation
21457	21461	Tester moisture (grain)/ salt	22645	32260	Therapist, manipulative
75434	31525	Tester (armature)	26358	24460	Therapist, marriage
21455	21461	Tester (butter and fat)	32111	31330	Therapist, medical radiation
21456	21461	Tester (compound and liquid gas)	22697	32260	Therapist, music
31172	31170	Tester (metallurgical / mining and quarrying/ oil well)	32111	31330	Therapist, nuclear medicine
74223	72450	Tester ,cable	22694	32261	Therapist, occupational
31133	31525	Tester, battery	22697	32260	Therapist, orientation of the blind
21428	21421	Tester, cement	22645	32260	Therapist, physical
51653	33400	Tester, driving	22697	32260	Therapist, poetry
31146	31525	Tester, electronic systems/ components	26345	24450	Therapist, psychological
31178	71110	Tester, hardness	22695	32261	Therapist, recreational
31422	32130	Tester, herd	26358	24460	Therapist, relationship
31113	31110	Tester, petroleum refinery	32305	32410	Therapist, scraping and cupping
81133	81130	Tester, pipe (petrol driller)	26358	24460	Therapist, sex
31164	31160	Tester, pulp and paper	32557	32260	Therapist, shiatsu
35214	31312	Tester, recording	22302	32410	Therapist, unani
31422	32120	Tester, soil	21115	21116	Thermodynamicist
71215	71311	Thatcher	81524	74320	Threader (loom)
26363	24602	Theologian	73186	74323	Threader, loom (hand)
32556	32260	Therapist, acupressure	73146	73211	Thrower ,pottery and porcelain
22697	32260	Therapist, arts	71221	71320	Tiler (floor/wall)
51427	51410	Therapist, beauty	71217	71310	Tiler, roof
22697	32260	Therapist, blind	81116	71112	Timber (mine/quarry)
32515	32250	Therapist, dental	81116	71113	Timbering worker(quarry/mine/underground)
22697	32260	Therapist, drama			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
41101	41900	Timekeeper	33115	34110	Trader, foreign exchange
34233	34753	Timer (horse race)	33244	34210	Trader, futures: commodities
83504	83400	Tindal	33115	34110	Trader, futures: financial
83504	83400	Tindal (engine room)	33116	34110	Trader, securities
95202	91120	Tinker	33115	34110	Trader, stock
81225	82232	Tinner	22309	32290	Traditional medicine professionals n.e.c
73124	73122	Tone regulator, musical instruments	34222	34752	Trainer (boxing/golf/martial arts/sports/ wrestling)
72221	72220	Toolmaker	51643	61297	Trainer (camel/ dog/ horse-breaking/ racehorse)
81138	81130	Toolpusher	34232	34752	Trainer (yoga/ physical)
62106	61411	Topper (logging) (market)	34232	34750	Trainer, aerobics
73166	73240	Toucher-up, ceramics decoration	94115	51220	Trainer, crew: fast food
81138	81130	Tourpusher	34232	34750	Trainer, fitness
81713	81430	Tower man (pulp making)	23564	23590	Trainer, information technology
81313	82211	Tower man (soap making)	23564	23590	Trainer, internet
21318	22120	Toxicologist	23564	23590	Trainer, IT
21316	22112	Toxicologist animal	34232	34750	Trainer, personal
21338	22110	Toxicologist, environmental	24246	24120	Trainer, staff development
75331	74360	Toymaker (doll)	26597	34740	Trainer, wild animals
73194	73312	Toymaker (stone/metal)	83123	83122	Trainman
73171	74240	Toymaker (wood)	26527	24530	Transcriber, music
31183	31180	Tracer	73218	73431	Transferrer (photomechanical)
73166	73240	Tracer, ceramics decoration	73218	73431	Transferrer, (lithographic)
93126	93121	Trackman, railway	73166	73240	Transferrer, ceramics decoration
33115	34110	Trader, bond	26432	24441	Translator
33244	34210	Trader, commodities	43231	41330	Transport clerks
33116	34110	Trader, derivatives	63406	62100	Trapper, subsistence
52448	91130	Trader, E-bay	62245	61542	Trapper-hunter, fur(market)
33115	34110	Trader, financial	51131	51130	Travel guide (any type)

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
33221	34151	Traveller, commercial	24118	24110	Trustee, bankruptcy
21655	21480	Traverser	24118	24110	Trustee, insolvency
62232	61531	Trawler(market)	31331	81520	Tubman, chemical and related processes
12118	12310	Treasurer, company	71125	71220	Tuck pointer
31341	81550	Treater (assistant), petroleum refining	73182	74320	Tufter(carpet weaving)
31176	31172	Treater (gas (natural gas)/ well acidizing)	81521	74320	Tufter, carpet weaving
81414	82310	Treater (latex)	26591	34740	Tumbler
31336	81532	Treater, crude oil (oil field)/ Expeller (chemical and related materials)	73124	73122	Tuner (accordion/piano/ organ/ musical instrument)
31178	31170	Treater, well acidising	72314	72310	Tuner (vehicle engine)
92152	92120	Tree planter	73146	73211	Tuner, pottery and porcelain
92146	92110	Treelopper	71132	71134	Turner (stone)
21655	21480	Triangulator	75231	74232	Turner (wood)
51422	51411	Trichologist	72143	72142	Turner, plate (metal)/ (ship frame)
93317	93310	Tricyclist;	73216	73430	Tuscher, lithographic
93296	93221	Trimmer (rubber)	23591	23590	Tutor (private tuition)
75315	74341	Trimmer ,fur	23535	23590	Tutor, after school: languages
75356	74412	Trimmer( pelt)	23595	33400	Tutor, after school: mathematics
81721	81412	Trimmer, board	23555	23590	Tutor, art: private tuition
75341	74370	Trimmer, coach	23596	33400	Tutor, calligraphy
75113	74111	Trimmer, meat	23595	33400	Tutor, chemistry: private tuition
75367	74423	Trimmer, shoe finishing	23597	33400	Tutor, coaching college
62108	61410	Trimmer, tree: forestry(market)	23555	23590	Tutor, dance: private tuition
92146	92110	Trimmer, tree: garden maintenance	23555	23590	Tutor, drama: private tuition
74136	72451	Trolley man, aerial way	23596	33400	Tutor, dressmaking: private tuition
26527	24530	Trombonist	23597	33400	Tutor, elocution: private tuition
03100	01100	Trooper	23596	33400	Tutor, handicrafts: private tuition
26523	24532	Trumpeter	23535	23590	Tutor, language: private tuition

#### Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
23597	33400	Tutor, literacy and numeracy: private tuition	75342	73371	Upholsterer (furniture/ soft furnishing/ aircraft/ automobile/ railway carriage)
23597	33400	Tutor, literacy: private tuition	75342	74370	Upholsterer, orthopaedic
23597	33400	Tutor, math's: private tuition	75342	74370	Upholsterer, vehicle
23543	23590	Tutor, music: private tuition	96226	91620	Useful, hotel
23555	23590	Tutor, painting: private tuition	96291	91521	Usher
23543	23590	Tutor, private tuition: music	V		
23543	23590	Tutor, private tuition: singing			
23109	23100	Tutor, university	32562	32212	Vaccinator
26528	24530	Tympanist	32403	32271	Vaccinator (veterinary/poultry)
73213	73411	Type-caster (printing and publishing)	51622	51422	Valet ( hotel/Ship)
73213	73411	Typesetter (linotype/ photo-type)	83221	83221	Valet parking
41311	41110	Typist	51621	51422	Valet,personal
41311	41111	Typist, shorthand	33152	34170	Valuer
73216	73410	Typographer	83221	83221	Van driver
U			41311	41110	Varitypist
32116	31330	Ultrasonographer	71321	71420	Varnisher, (vehicle/metal)
34223	34753	Umpire, sports	71328	71420	Varnisher, manufactured articles
22303	32290	Unani practitioner	75228	74220	Varnisher, wooden furniture
31216	71110	Under-manager, mine	31331	81520	Vatman ,chemical and related processes
11129	11200	Under-secretary, government	22302	32290	Veids
51632	51430	Undertaker	95201	91120	Vendor (newspapers)
75413	72161	Underwater worker	52123	91112	Vendor (water ways/ fresh-water)
33212	34120	Underwriter) insurance	52116	52300	Vendor, market
33115	34110	Underwriter, investments	52122	91112	Vendor, refreshments (cinema/theatre/ road-railway transport)
33127	34190	Underwriter, loans	95203	91120	Vendor, street (non-food products)
33127	34190	Underwriter, mortgages	52125	91110	Vendor, street: drinks
93337	93330	Unloader, freight			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
52126	91110	Vendor, street: food	51316	51230	Waitress, wine
95204	91121	Vendor, theatre programme/ stamp	34358	34740	Walker-on
26597	34742	Ventriloquist	32213	32311	ward boy, hospital
51532	91410	Verger	54132	51630	Warden(jail/ prison)
43214	41311	Verifier ,stock	26355	24461	Warden, community centre/ , approved school (professional)
22504	22230	Veterinarian	34128	34604	Warden, community centre/ probation home (associate professional)
22505	22230	Veterinarian, epidemiology	54194	51695	Warden, fishery assistant
22506	22230	Veterinarian, public health	26358	24460	Warden, probation home: professional
22504	22230	Veterinary Doctor	54193	51694	Warden, traffic
26364	24603	Vicar	53298	51320	Wards man
01100	01100	Vice-admiral	81411	82310	Warmer, refiner (rubber)
01100	01100	Vice-marshal, air	81524	82620	Warper (machine)/beam
75434	31526	Viewer (quality inspection)	31336	81532	Washer, chemical and related materials
32534	32210	Village health worker	81123	81120	Washer, coal
61127	61120	Viniculturist (market)	93291	93223	Washer, hand (carcass/ cloth/yarn/ fiber/ manufacturing process )
26523	24532	Violinist	91212	91330	Washer, hand (laundry)
81602	82720	Viscoliser (dairy products)	91221	91420	Washer, vehicles (hand)
34125	34600	Visitor, family planning (associate professional)	91232	91420	Washer, window
26524	24533	vocalist/ Contralto / Baritone	93295	93223	Washer,hand(hide)
73128	73120	Voicer, organ	21434	21490	Waste management engineer
21146	21140	Volcanologist	96121	91610	Waste picker
81415	82310	Vulcanizer	54143	51690	Watch and ward
<b>W</b>			54196	51695	Watcher (fishery/ game)
51316	51230	Waiter, head	43124	41223	Watcher, tide
51311	51230	Waiter; food/ wine	54145	91520	Watchman
51316	51230	Waitress	54147	91523	Watchman (night)
51316	51230	Waitress, head			



## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
54146	91520	Watchman (railways)	71311	71410	Whitewasher
54114	51611	Watchman, fire	14204	13140	Wholesaler
96242	91620	Water collector	81515	82612	Winder (colour and art silk/ pirn/ cheese (textile)
21339	22110	Water quality analyst	93298	93210	Winder ,coil/armature(hand)
83505	83400	Waterman	93298	93210	Winder(rotor/stator/transformer) (hand)
73161	73230	waxer (decorative glass)/ crystal/intaglio)	93291	93210	Winder, filament: hand
73178	74240	Weaver, basket	82128	82830	Winder, filament: operating machine
73182	74320	Weaver, carpet	82128	82820	Winder, transformer coil: operating machine
73182	74320	Weaver, hand (cloth/ coir/ jacquard/lace/ax minster)	61127	61120	Winegrower(market)
81529	82620	Weaver, Power loom( jute/silk/ wool/ cotton)	81607	82772	Winnower, cocoa-bean
73178	74240	Weaver,straw	62103	61410	Woodcutter, forest(market)
25132	34390	Website architect	62105	61410	Woodman(market)
25131	21310	Website developer	75235	74233	Woodworker(dovetailing/ dowelling/ morticing/sanding/ tenoning)
33323	34390	Wedding planner	75217	74210	Woodworker, treating
75443	71430	Weed controller	75437	31520	Wool classer
43214	41312	Weigher	61216	61212	Woolgrower
33143	34343	Weight analyst (aircraft manufacturing)	81313	82210	Worker ((general), chemical processing plant (pharmaceutical))
72121	72120	Welder (acetylene)	73158	73220	Worker (laminated glass)
72121	72120	Welder,	93213	93220	Worker (packaging)
81426	82320	Welder, heat (plastic)	34133	34801	Worker (parish/religious/ lay)
72124	72120	Welder, machine(electric are)	54195	51690	Worker (protective service)
75414	72160	Welder, underwater	51643	61296	Worker ,zoo(skilled)
13443	12290	Welfare center manager	72131	72130	Worker sheet-metal(aircraft/ furniture/ household articles/ instruments/ ornamental/ vehicle
43238	41334	Wharfinger	71196	71293	Worker(demolition)
75224	74227	Wheel-Wright	71267	71362	Worker(pipe line)
11118	11100	Whip, government			
11118	11100	Whip, opposition			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
32581	51320	Worker, ambulance	61113	61110	Worker, farm: skilled (flax) (market)
35214	31312	Worker, audio-metrical	61113	61110	Worker, farm: skilled (groundnut) (market)
72153	72152	Worker, cable (bridge)	61122	61120	Worker, farm: skilled (grove) (market)
74134	72451	Worker, cable/line/wire (electric power (overhead/underground)	61113	61110	Worker, farm: skilled (irrigation)
74135	72451	Worker, cable/line/wire (electric traction (overhead cables)	61113	61110	Worker, farm: skilled (jute) (market)
74228	72430	Worker, cable: data	61218	61210	Worker, farm: skilled (livestock) (market)
74228	72430	Worker, cable: telecommunications	61302	61300	Worker, farm: skilled (mixed livestock and crops) (market)
74228	72450	Worker, cable: telegraph	61135	61130	Worker, farm: skilled (mushroom) (market)
74228	72450	Worker, cable: telephone	61296	61290	Worker, farm: skilled (ostrich) (market)
53116	51310	Worker, child care	61218	61210	Worker, farm: skilled (pig) (market)
34128	34600	Worker, community development	61113	61110	Worker, farm: skilled (potato) (market)
34128	34600	Worker, community services	61122	61120	Worker, farm: skilled (rubber) (market)
34128	34600	Worker, crisis intervention	61218	61210	Worker, farm: skilled (sheep) (market)
81123	81120	Worker, cyanide: separation equipment	63302	62100	Worker, farm: skilled (subsistence farming)
81326	73440	Worker, darkroom: photograph enlarging	61113	61110	Worker, farm: skilled (sugar-beet) (market)
34128	34600	Worker, delinquency: associate professional	61122	61120	Worker, farm: skilled (vineyard)
26358	24460	Worker, delinquency: professional	72218	72210	Worker, forging press
34128	34600	Worker, disability services	92146	92110	Worker, garden
53116	51310	Worker, family day care	92146	92110	Worker, garden maintenance
34128	34600	Worker, family services	73158	73220	Worker, glass
61218	61210	Worker, farm: skilled (cattle) (market)	61135	61130	Worker, greenhouse: skilled(market)
61122	61120	Worker, farm: skilled (coffee) (market)	73188	73320	Worker, handicraft: carpets
61218	61210	Worker, farm: skilled (dairy) (market)	73188	73320	Worker, handicraft: garment knitting
61218	61210	Worker, farm: skilled (domestic fur-bearing animals) (market)			
61113	61110	Worker, farm: skilled (field crops) (market)			

## Part-4: Occupational Titles in Alphabetical order

2015	1994		2015	1994	
73188	73320	Worker, handicraft: garments	53228	51330	Worker, personal care: home
73178	73310	Worker, handicraft: paper articles	92146	92110	Worker, plant nursery
73188	73320	Worker, handicraft: textile weaving	61113	61110	Worker, plantation: skilled (cotton) (market)
53228	51330	Worker, home care	61122	61120	Worker, plantation: skilled (rubber) (market)
53228	51330	Worker, home support	61122	61120	Worker, plantation: skilled (shrub crop) (market)
71246	71340	Worker, insulation	61122	61120	Worker, plantation: skilled (tea) (market)
71246	71340	Worker, insulation: sound-proofing	53228	51330	Worker, respite care
71145	71230	Worker, iron: concrete (reinforcement)	75118	74110	Worker, smokehouse: fish
51647	61290	Worker, kennel	75118	74110	Worker, smokehouse: meat
81313	82211	Worker, kettle (soap making))	34128	34600	Worker, social: associate professional
51647	61290	Worker, laboratory: skilled (animals)	71138	71130	Worker, stonework: layout
74228	72450	Worker, line: telecommunications	72144	72143	Worker, structural steel (workshop)
74228	72450	Worker, line: telegraph	71144	71235	Worker, Terrazzo
74228	72450	Worker, line: telephone	92157	92120	Worker, timber: forestry
71195	71292	Worker, maintenance(building)	71194	71291	Worker, timbering(construction)
92146	92110	Worker, maintenance: gardening	81118	71110	Worker, timbering: mine
61135	61130	Worker, market gardening: skilled	81118	71110	Worker, timbering: quarry
34128	34600	Worker, mental health support	81118	71110	Worker, timbering: underground
93345	93330	Worker, night fill	75167	74160	Worker, tobacco: conditioning
92146	92110	Worker, nursery: horticulture	75167	74160	Worker, tobacco: cutting
75115	74111	Worker, offal	75167	74160	Worker, tobacco: drying
53116	51310	Worker, out of school hours care	75167	74160	Worker, tobacco: leaf stemming
75128	74120	Worker, oven: biscuits	75167	74160	Worker, tobacco: leaf stripping
75128	74120	Worker, oven: bread	34128	34600	Worker, welfare support
75128	74120	Worker, oven: flour (confectionery)	74228	72450	Worker, wire: telegraph
71226	71320	Worker, parquetry	74228	72450	Worker, wire: telephone
			75214	74212	Worker, wood incising

## Part-4: Occupational Titles in Alphabetical order

### 2015 1994

75217	74210	Worker, wood: treating
34128	34600	Worker, youth services
93213	93220	Wrapper (hand)
71196	71293	Wrecker(building)
34213	34750	Wrestler
26414	24510	Writer (certificate/ continuity/ drama/ feature/ handbook/ song lyric/ script/ technical)
26415	24510	Writer (public information / publicity)
24326	24510	Writer, copy: public relations
26417	24510	Writer, copy: technical
26418	24510	Writer, creative
26438	24440	Writer, dictionary
26417	24510	Writer, documentation
26417	24510	Writer, interactive media
33128	34190	Writer, loan
33128	34190	Writer, mortgage
26424	24513	Writer, news
26198	24293	Writer, petition
44143	41440	Writer, public
24326	24510	Writer, publicity
26417	24510	Writer, scenario
26417	24510	Writer, short story
26417	24510	Writer, speech/song
26426	24510	Writer, sports

## X

32112	31330	x-ray technician ,medical
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### 2015 1994

## Y

31521	31425	Yacht master
43233	41332	Yardman (railway)
33413	41332	Yardmaster, goods (railway)
43238	41310	Yardmaster, railway
73181	74311	Yarn dyer
75121	74120	Yeast maker
33331	34232	Youth employment officer

## Z

33312	34221	Zileadar
73211	73431	Zinc corrector
81221	82232	Zinc dipper
51642	61293	Zoo keeper
21317	22112	Zoologist, assistant
21319	22112	Zoologist, any specialism(n.e.c)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>1111</b>		<b>Legislators</b>	11115	11106	Secretary parliamentary committee
11111	11101	Chief minister	11116	11107	Official, legislative
11111	11100	Governor-General	11116	11108	Chief whip
11111	11100	Head of State	11117	11108	Chairman ((local body /district council)
11111	11100	Legislator	11117	11108	Chairman(deputy),senate
11111	11101	Member of parliament	11117	11108	Speaker (deputy)
11111	11100	Member, house of assembly	11118	11100	Representative, legislative
11111	11100	Member, legislative assembly	11118	11100	Whip, government
11111	11100	Member, legislative council	11118	11100	Whip, opposition
11111	11101	Minister, government	11118	11100	Secretary of state
11111	11100	Parliamentarian	11118	11100	Opposition leader
11111	11100	Politician	<b>1112</b>		<b>Senior government officials</b>
11111	11100	Premier	11121	11201	Accountant, general (government official)
11111	11100	President ,government	11121	11202	Collector (deputy, asstt) of customs
11111	11104	Senator	11121	11201	Comptroller
11112	11105	Chancellor, government	11121	11200	Director (deputy/assistant)( Audit & Accounts, Services, Insurance & Financial Banking)
11112	11105	Councilor ( city/ government)	11121	11200	Director-general(deputy/ assistant) ( Audit & Accounts, Services, Insurance & Financial Banking)
11112	11105	Mayor	11121	11200	Governor (deputy) State Bank
11112	11105	Ombudsman	11121	11200	Inspector,Audit & Accounts, Services, Insurance & Financial Banking)
11113	11106	Chairman, all government bodies	11121	11203	Officer, accounts
11113	11106	Chairman, public service commission	11121	11203	Officer, budget
11113	11106	Governor, state	11121	11203	Officer, credit control
11113	11106	Member ,all government bodies	11121	11203	Officer, land requisition
11113	11106	Member, public service commission	11121	11203	Officer, pay(roll)
11114	11100	Nazim /Naib Nazim			
11114	11106	Member, local body /district council			
11115	11109	Commissioner, election (chief/ deputy)			
11115	11106	Parliamentary Secretary			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
11121	11203	Officer, revenue	11123	11223	Officer, tourist
11121	11203	Officer, wealth tax	11123	11224	P-S to minister
11121	11204	Postmaster (deputy/assistant), general	11123	11221	Secretary( government official)
11121	11204	Officer excise & taxation	11123	11221	Secretary(deputy/joint)/ additional),government official
11122	11213	Commandant			
11122	11200	Commissioner, police			
11122	11200	Constable, chief: police	11123	11100	Chief secretary
11122	11210	Director (deputy/assistant)( Police Services)	11123	11100	Home secretary
11122	11210	Director-general (asstt.)( Police Services)	11124	11230	Director (deputy/assistant), Educational Services
11122	11210	Inspector -general, (asstt)( Police Services)	11124	11230	Director-general(deputy/ assistant), Educational Services
11122	11213	Officer, civil defense	11124	11231	Adviser (joint), educational (government official)
11122	11214	Officer, intelligence(police)			
11122	11212	Superintendent, jail	11124	11230	Inspector, Educational Services
11122	11211	Superintendent, police (additional/deputy)	11124	11232	Instructor, chief (government official)
11123	11222	Coordinator, Hajj	11124	11232	Officer, apprenticeship
11123	11220	Director (deputy/assistant), Secretariat & Managing Services	11125	11241	Ambassador
11123	11220	Director-general (asstt.), Secretariat & Managing Services	11125	11240	Coordinator, general (foreign services)
11123	11220	Inspector,Secretariat & Managing Services	11125	11240	Director (deputy/assistant), foreign services
11123	11222	Officer (assistant), protocol	11125	11240	Director-general (asstt),foreign services
11123	11222	Officer, administrative	11125	11240	Inspector, (foreign services
11123	11222	Officer, estate	11125	11242	Secretary (Ist/ IInd)
11123	11222	Officer, organisation and methods	11126	11200	Administrator, city
11123	11223	Officer, passport	11126	11200	Administrator, government
11123	11222	Officer, protocol	11126	11200	Administrator, intergovernmental organization
11123	11223	Officer, saving (divisional)	11126	11253	Adviser, legal (government official)
11123	11222	Officer, section	11126	11250	Attorney, general (government official)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
11126	11251	Commissioner (assistant/deputy/ additional), district Judiciary and District Administration	11128	11273	Adviser, economic (government official)
11126	11250	District Coordinating Officer (D.C.O)	11128	11272	Chief (assistant/deputy) (government official)
11126	11251	Commissioner, Chief(government official)	11128	11271	Commissioner (deputy), agriculture
11126	11200	Commissioner, fire	11128	11271	Commissioner, cotton
11126	11200	Commissioner, high: government	11128	11270	Director (deputy/assistant), Research, Monitoring & Evaluation Services
11126	11200	Commissioner, inland revenue	11128	11270	Director-general (asstt), Research, Monitoring & Evaluation Services
11126	11250	Director (deputy/assistant), Judiciary and District Administration	11128	11270	Inspector, Research, Monitoring & Evaluation Services
11126	11250	Director-general (asstt), Judiciary and District Administration	11128	11272	Officer, data control
11126	11251	Inspector, Judiciary and District Administration	11128	11272	Officer, research
11126	11252	Member, judicial	11128	11272	Surveyor (deputy/assistant), general
11126	11254	Officer (chief), district council	11129	11281	Adviser (chief/ deputy), engineering (government official)
11126	11254	Officer, firearms	11129	11200	Consul-general
11126	11254	Officer, labour	11129	11282	Controller, rationing
11126	11252	Rector, justice	11129	11280	Director (deputy/assistant), Engineering & Other Service
11126	11252	Registrar, cooperative societies	11129	11280	Director-general (asstt), Engineering & Other Service
11126	11252	Registrar, court	11129	11200	Director-general, intergovernmental organization
11126	11252	Registrar, other (government official)	11129	11200	Head, chancery
11127	11261	Controller, (deputy) drugs	11129	11200	Head, government department
11127	11260	Director (deputy/assistant) Medical Services	11129	11200	Head, permanent: government department
11127	11260	Director-general (asstt) Medical Services	11129	11282	Inspector, boilers
11127	11260	Inspector, Medical Services	11129	11282	Inspector, boundary
11127	11262	Officer, anti-malaria	11129	11282	Inspector, explosives
11127	11262	Officer, food (scientific)	11129	11282	Inspector, railways
11127	11262	Officer, public health			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
11129	11280	Inspector-general (asstt), Engineering & Other Service	11142	11420	President, employers' organization
11129	11283	Officer, sector (agriculture)	11142	11420	Secretary-general, employers' organization
11129	11283	Officer, water logging	11142	11420	Secretary-general, trade union
11129	11200	Paymaster-general, government	11143	11421	Administrator, chamber of commerce
11129	11200	Representative, diplomatic	11143	11421	Administrator, trade or professional organization
11129	11200	Representative, embassy	11143	11421	Manager, labour union
11129	11200	Secretary, embassy	11144	11430	Secretary-general human rights
11129	11200	Secretary-general, government administration	11144	11430	Secretary-general humanitarian
11129	11200	Under-secretary, government	11144	11430	Secretary-general red crescent
			11144	11430	Secretary-general special-interest organisation
<b>1113</b>		<b>Traditional chiefs and heads of village</b>	11144	11430	Secretary-general wild life protection
11131	11300	Chief, village	11144	11430	Secretary-general red cross
11131	11301	Head, village	11144	11430	Secretary-general, environment protection
11132	11301	Numberdar	11145	11431	Official (senior), humanitarian/special-interest organization
11133	11300	Elder, tribal	11146	11430	Chairperson, charity
<b>1114</b>		<b>Senior officials of special-interest organizations</b>	11146	11420	Chairperson, employers' organization
11141	11410	Agent (political)	11146	11430	Chairperson, environment protection organization
11141	11410	Chairperson, political party	11146	11430	Chairperson, human rights organization
11141	11410	Leader political party	11146	11430	Chairperson, humanitarian organization
11141	11410	Official (senior), political party	11146	11430	Chairperson, special-interest organization
11141	11410	President, political party	11146	11430	Chairperson, sports association
11141	11410	Secretary-general, political party	11146	11420	Chairperson, trade union
11142	11420	Director general, employers organization	11146	11430	Chairperson, wild life protection organization
11142	11420	Official (senior)	11147	11430	Director-general, environment protection organization
11142	11420	Official, senior: employers' organization			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
11147	11430	Director-general, human rights organization	11208	12100	Chancellor, university
11147	11430	Director-general, humanitarian organization	11208	12100	Director, company
11147	11410	Director-general, political party	11208	12100	Director, executive
11147	11430	Director-general, special-interest organization	11208	12100	Director, managing
11147	11420	Director-general, trade union	11208	12100	Director, regional
11147	11430	Director-general, wild life protection organization	11208	12100	Executive, chief
<b>1120</b>		<b>Managing directors and chief executives</b>	11208	12100	Member, board
			11208	12100	Officer, chief executive
			11208	12100	Officer, chief operating
			<b>1211</b>		<b>Finance managers</b>
11201	12100	Director (asstt/ deputy), health	12111	12310	Controller of branches (banking)
11202	12100	Director (broadcasting / insurance	12111	12310	Department -manager, bank
11202	12100	Director, company/ industry/ public relations	12112	12311	Department –manager (manager), accounting/ budgeting/ revenue
11203	12102	Chairperson, organization	12113	12311	Officer, foreign exchange
11203	12101	Director-general enterprise	12114	12314	Purser, ship
11203	12101	Managing-director, enterprise	12115	12310	Manager, finance
11203	12101	President, enterprise	12116	12310	Director, budgeting
11203	12101	President ,company	12117	12310	Director, finance
11204	12104	Chairman, council of Islamic ideology	12118	12310	Manager, accounts
11204	12104	Chairman, Islamic research institution	12118	12310	Manager, auditing firm
11205	12105	Chancellor (vice). University	12118	12310	Officer, chief financial
11206	12107	Officer, commercial(divisional)	12118	12310	Banker
11206	12100	Rector, college	12118	12310	Registrar company
11206	12100	Rector, university	12118	12310	Treasurer, company
11207	12106	Director(other)	<b>1212</b>		<b>Human resource managers</b>
11207	12100	Director, mining/quarrying	12121	12320	Department -manager, industrial relations
11207	12106	Executive (other)	12121	12320	Manager, department: employee relations
11208	12100	Chairperson, enterprise			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
12121	12320	Manager, department: recruitment	12133	1229	Corporate planning manager
12121	12320	Manager, department: workplace relations	12134	12290	Coordinator, policy: government
12122	12320	Manager, field party	12134	12310	Director, compliance
12123	12321	Department -manager, personnel	12134	12290	Director, policy and planning
12124	12321	Officer, development	12134	12290	Director, strategic planning
12125	12321	Officer (operations)	<b>1219</b>		<b>Business services and administration managers not elsewhere classified</b>
12126	12322	Executive, client service			
12127	12320	Director, human resources	12191	12270	Department-manager, production and operations (business services)
12127	12320	Director, personnel			
12127	12320	Director, recruitment	12191	12270	General-manager, production and operations (business services)
12128	12320	Manager, employee relations			
12128	12320	Manager, human resources	12192	12281	Department –manager, production and operations (personal care) / (cleaning)
12128	12320	Manager, workplace relations			
<b>1213</b>		<b>Policy and planning managers</b>	12192	12280	General-manager, production and operations (personal care) / (cleaning)
12131	12290	Manager, business planning	12192	12280	Manager, department: cleaning
12131	12310	Manager, compliance	12193	12290	Department -manager. production and operations (public administration)
12131	12290	Manager, corporate planning			
12131	12290	Manager, fisheries: conservation	12194	12291	Department-manager, production and operations (travel agency)
12131	12290	Manager, fisheries: policy			
12131	12290	Manager, planning: policy	12195	12292	Department –manager, production and operations (extra-territorial organizations)
12131	12290	Manager, policy development			
12131	12290	Manager, public policy	12196	12310	Director, administrative services
12131	12290	Manager, social administration	12196	12310	Director, corporate services
12131	12290	Manager, social planning	12196	12280	Director, facilities management
12131	12310	Officer, chief compliance	12196	12310	Manager, administrative services
12131	12290	Policy manager			
12132	12390	Strategic planning manager	12196	12310	Manager, corporate services
			12196	12310	Manager, department:

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		administration	12222	12341	Department -manager, public relations
12196	12280	Manager, facilities	12223	12341	Supervisor, correspondence section
12196	13170	Manager, general: business services	12224	12340	Director, public relations
12196	13180	Manager, general: cleaning	12224	12340	Manager, communications: public relations
12197	12311	Supervisor, documentation (water transportation)			
12198	12312	Secretary (executive), company	1223		Research and development managers
12199	12270	Manager business services n.e.c	12231	12370	Department -manager, research
1221		Sales and marketing managers	12232	12370	Director (project), agriculture information
12211	12330	Department-manager, sales (except wholesale and retail trade) / sales promotion	12233	12370	Department -manager, development
12211	12330	Executive, production and operations (personal care) / (cleaning)	12234	12370	Director, business development: except ICT
			12234	12370	Director, clinical trials
12212	12330	Manager, sales (insurance)	12234	12370	Director, product development
12213	12331	Manager, safe deposits / credit/ loan (financial corporation)	12234	12370	Manager, clinical trials
12214	12332	Manager (assistant) sales, (telephone/mobile phone/internet)/ railway services	12234	12370	Manager, product development
			12234	12370	Manager, programme: research
12215	12333	Department-manager, marketing	12234	12370	Manager, project: clinical trials
12216	12334	Organiser, sales (regional or overseas)/ (wholesale/retail trade)	12234	12370	Manager, project: research
			12234	12370	Manager, research
12216	12334	Supervisor, sales (regional or overseas)/ (wholesale/retail trade)	12234	12370	Manager, research and development
12217	12330	Manager, commercial	1311		Agricultural and forestry production managers
12217	12330	Manager, exports	13111	12210	Department -manager, production and operations (agriculture)
12218	12330	Director, marketing	13112	12212	Department-manager, production and operations (forestry)
12218	12330	Director, sales			
1222		Advertising and public relations managers	13113	12213	Department -manager, production and operations (hunting)
12221	12340	Department-manager, advertising			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
13114	12210	Manager, plantation	13218	13120	Manager, production and operations: manufacturing
13114	12210	Manager, ranch	13218	12220	Manager, production: chemicals
<b>1312</b>		<b>Aquaculture and fisheries production managers</b>	13218	12220	Manager, production: gas supply
13121	12211	Department-manager, production and operations (fishing)	13218	12220	Manager, production: oil refinery
13122	12210	Aquaculture production manager	13218	12220	Manager, production: petroleum refinery
13122	13110	Manager, aquaculture	13218	12220	Manager, production: power generation
13122	13110	Manager, fish hatchery	13218	12220	Manager, production: waste management
13122	13110	Manager, trawler	13218	12220	Manager, production: water supply and treatment
13123	12210	Fishing operations manager	13218	13120	Manufacturer
13124	12210	Captain, shore: fishing	<b>1322</b>		<b>Mining managers</b>
<b>1321</b>		<b>Manufacturing managers</b>	13221	13120	Chief-manager (Mining)
13211	13120	Chief-manager, manufacturing	13221	12220	General-manager (Mining)
13211	13120	General-manager, manufacturing	13222	12220	Mine manager
13212	13120	Manager, regional (manufacturing)	13223	12290	Production manager (mine)
13213	12220	Manager, production/operations (electrical equipment manufacturing, installation and repairing)	13224	12293	Production manager (oil and gas extraction)
13214	12220	Manager, production/operations (fabrication of products of paper, plastic etc.)	13225	12290	Production manager (quarry)
13215	12220	Manager, production/operations (glass and ceramics manufacturing)	13226	12220	Controller, production: mining
13216	12220	Manager, production/operations (manufacturing of machinery and metal products)	13226	12220	Manager, metallurgy
13217	12220	Director, power station	13226	12220	Manager, offshore installation: oil or gas
13217	13120	Manager, general: manufacturing	13226	12220	Manager, operations: mining
13217	12220	Manager, plant: power generation	13226	12220	Manager, plant: mining
13217	12220	Manager, power station	13226	12220	Manager, processing: mining
			13226	12220	Manager, works: mining
			<b>1323</b>		<b>Construction managers</b>
			13231	13130	Chief-manager (Construction)
			13231	13130	General-manager (Construction)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
13232	13130	Manager, regional (Construction)	13246	12261	General-manager (storage), production and operations warehouse/ stores
13233	12230	Department -manager, production and operations (construction)	13247	12261	Department-manager, production and operations (communications)
13234	13130	Contractor( construction)			
13235	12230	Builder, project	13248	12260	Captain, shore: shipping
13235	12230	Contractor, building: project management	13248	12350	Department -manager, distribution/ supplies/ bulk plant/ purchasing
13235	12230	Manager, project: civil engineering	13248	12260	Director, logistics
13235	12230	Manager, project: construction	13248	12260	Manager, air ramp
13235	12230	Manager, demolition	13248	12260	Manager commercial
<b>1324</b>		<b>Supply, distribution and related managers</b>	13248	12260	Manager, airport operations
13241	12260	Department-manager, production and operations (transport)	13248	12260	Manager, bus station
13241	12260	General-manager, production and operations (transport)	13248	12260	Manager, courier service
13241	13140	Manager, warehousing company	13248	12260	Manager, flight operations
13242	13162	Branch-manager, road transport/ transport operations department	13248	12260	Manager, imports and exports
13242	13162	Officer (chief), traffic/ transportation	13248	12260	Manager, logistics
13243	12260	Manager (assistant), airport	13248	12260	Manager, mail operations
13243	12260	Superintendent (deputy), (airport)	13248	12260	Manager, metropolitan railway station
13243	12260	Superintendent, maintenance (air transport)	13248	12260	Manager, postal service
13244	12263	Inspector, commercial (railways)	13248	12353	Manager, procurement
13244	12263	Station master, railway	13248	12260	Manager, railway station
13245	12260	Manager, freight traffic department	13248	12260	Manager, traffic
13245	12261	Manager, harbor/dock/wharf department	13248	12260	Manager, transport
13245	12260	Superintendent, stevedoring	13248	13160	Manager, transport company
13246	12261	Department -manager, (storage), production and operations warehouse/ stores	13248	12260	Manager, urban transit system
			13248	12260	Postmaster
			13248	12260	Superintendent, rail operations

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015 1994		2015 1994	
<b>1330</b>		<b>Information and communications technology service managers</b>	<b>managers</b>
		13411	12290 Manager, child care services
		13412	12290 Manager, child day care centers
13301	12262	13413	12290 Manager, child safety planners
		13414	13190 Director, after school care
13302	12360	13414	12290 Director, children's services
		13414	13190 Licensee, childcare centre
13303	13170	13414	13190 Manager, care: out of school hours
13303	13160	13414	12290 Manager, children's services
13304	13160	13414	13190 Manager, crèche
13305	13160	13414	13190 Manager, kindergarten
13306	13170	13414	13190 Manager, nursery: childcare
13307	12360	13414	13190 Manager, playgroup
13307	12260	13414	13190 Child care services managers
13307	12360	<b>1342</b>	<b>Health services managers</b>
13307	12360	13421	12310 Administrator (assistant), hospital
13307	12360	13421	13192 General-manager, health
13307	12360	13421	13190 Manager, health facility
13307	13170	13421	12290 Manager, health service
13307	13170	13422	12290 Department -manager, production and operations (health)
13307	12260	13423	22300 Matron (health)
13307	12360	13424	13190 Coordinator, community health care
13307	12360	13424	22300 Director of nursing
13307	12360	13424	13190 Director, clinical
13307	12360	13424	13190 Director, health facility
13307	12360	13424	12290 Director, health service
13308	12260	13424	22300 Superintendent, nursing (asst)
<b>1341</b>		13425	13190 Administrator, health facility
			<b>Child care services</b>



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
13425	13190	Administrator, hospital	13444	13190	Community center manager
13425	13190	Administrator, medical	13445	12290	Family services manager
13425	13190	Director, administration (health)	13446	13190	Manager, cottage: welfare services
13426	12290	Officer, chief public health	13446	13190	Manager, facility: welfare services
13426	12290	Officer, clinical: chief	13446	13190	Manager, hostel: welfare services
13426	22300	Officer, nursing: principal	13446	12290	Manager, housing services
13426	12290	Officer, public health: chief	13446	13190	Manager, lodge: welfare services
<b>1343</b>		<b>Aged care services managers</b>	<b>1345</b>		<b>Education managers</b>
13431	22300	Manager, aged care centers	13451	12290	Department-manager, production and operations (education)
13432	22300	Manager services, aged cares	13452	12290	Academic, university: head of department or faculty
13433	13190	Coordinator, community aged care	13452	12294	Dean
13433	13190	Coordinator, retirement village	13452	12290	Head-teacher
13433	13190	Director, home: aged care	13452	12290	Manager, department: education
13433	12290	Manager, aged care	13452	13190	Manager, general: education
13433	12290	Manager, care: nursing home	13453	12294	Director, student affairs
13433	13190	Manager, centre: aged care	13454	12294	Head, college faculty
13433	13190	Manager, cottage: aged care	13455	12294	Head, university faculty
13433	13190	Manager, facility: aged care	13456	12294	Headmaster/mistress, kindergarten
13433	13190	Manager, hostel: aged care	13457	12294	Headmaster/mistress, primary school
13433	13190	Manager, lodge: aged care	13458	12105	Principal (vice), school/ college/ university
13433	13190	Manager, nursing home	13458	12105	Director, school /college
13433	12290	Manager, residential care: nursing home	13458	12294	Superintendent, vaccine institute
13433	22300	Matron, nursing home facility	<b>1346</b>		<b>Financial and insurance services branch managers</b>
<b>1344</b>		<b>Social welfare managers</b>	13461	13171	Manager, insurance
13441	12290	Department -manager, production and operations (social work)	13462	13171	Planner, estate (insurance)
13442	13194	General-manager, social work			
13443	12290	Welfare center manager			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
13463	13196	Branch-manager, financial institution	13496	12290	Manager, flight safety
13464	13196	Branch manager (assistant), bank	13496	12290	Manager, laboratory
13465	12270	Credit Union Manager	13496	12290	Manager, publishing
13466	13170	Branch manager, Insurance agency	13496	12290	Publisher
13467	13170	Director, bank	13497	12290	Officer, immigration: chief
13467	13170	Manager, branch: building society	13499	12290	Manager professional n.e.c
13467	13170	Manager, building society	<b>1411</b>		<b>Hotel managers</b>
13467	13170	Manager, credit union	14111	12250	Department -manager, production and operations (hotel)
<b>1349</b>		<b>Professional services managers not elsewhere classified</b>	14112	13151	General-manager, boarding-house/ hostel
13491	13190	Art gallery manager	14112	13151	Manager, boarding-house/ hostel
13492	12290	Library manager	14113	13151	General-manager, guest-house/ lodging-house
13493	12290	Museum manager	14113	13151	Manager, guest-house/ lodging-house
13494	13190	Archive Manager	14114	13151	General-manager, hotel /inn/ motel
13495	13190	Legal services manager	14114	13151	Manager, hotel /inn/ motel
13496	12290	Director, design service	14115	13151	Innkeeper
13496	12290	Governor, prison	14116	13151	Proprietor (working), guest house/ hotel/ motel
13496	12290	Librarian, chief	14117	13151	Superintendent, hostel/matron school
13496	12290	Manager, archives	14118	13153	General-manager, camping site/ caravan park
13496	12290	Manager, <span style="color: red;">correctional/corrective</span> services	14118	13153	Proprietor , camping site/Caravan park
13496	12290	Manager, department: cultural activities	<b>1412</b>		<b>Restaurant managers</b>
13496	12290	Manager, department: recreation	14121	12251	Department-manager, production and operations (restaurant)
13496	12290	Manager, department: sporting activities	14122	13150	In charge, restaurant
13496	12290	Manager, design service	14123	13150	Manager, kitchen(railway/ flight/ ship) / kitchen (any industry)
13496	12290	Manager, emergency services			
13496	12290	Manager, fire services			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
14123	13150	Steward (chief)/manager, restaurant	14206	13140	Manager, grocery
14124	13152	Manager, cafe/ canteen/ restaurant (self-service)/ snack-bar	14206	13140	Manager, store: retail
14125	13152	In charge, canteen	14207	13140	Dealer, car: managing and supervising staff
14126	13152	Proprietor (working), restaurant/cafe bar/ canteen/ snack bar	14208	13140	Manager, mail-order store
14127	13150	Restaurant	14208	13140	Director, franchise
<b>1420</b>		<b>Retail and wholesale trade managers</b>	14208	13140	Manager, charity shop
14201	12240	Department-manager, production and operations (retail trade)	14208	13140	Manager, garden centre
14201	12240	General-manager, production and operations (retail trade)	14208	13140	Manager, station, service
14201	13143	Manager/Merchant(retail trade)	<b>1431</b>		<b>Sports, recreation and cultural centre managers</b>
14202	12241	Department -manager, production and operations (wholesale trade)	14311	13139	Manager, cinema
14202	12241	General-manager, production and operations (wholesale trade)	14312	13190	General-manager, cultural activities
14202	13140	Manager, wholesale trade	14313	13193	General-manager, recreation
14204	13140	Shopkeeper (wholesale)	14314	13195	General-manager, sporting activities
14204	13140	Manager/Merchant (wholesale)	14315	13190	Director, leisure centre
14204	13140	Proprietor (wholesale)	14315	13190	Manager, amusement centre
14204	13140	Manager/Supervisor/Wholesaler	14315	13190	Manager, amusement park
14205	13142	Manager, chain-store/ discount-store/ supermarket	14315	13190	Manager, billiards hall
14205	13140	Manager, department store	14315	13190	Manager, casino
14205	12240	Manager, department: supermarket	14315	13190	Manager, leisure centre
14206	12240	Manager, department: shop	14315	13190	Manager, pool hall
14206	13140	Manager, general: self-service store	14315	13190	Manager, riding school
14206	13140	Manager, general: shop	14315	13190	Manager, snooker hall
			14315	13190	Manager, swimming pool
			14315	13190	Manager, theatre
			14315	13190	Manager, theme park
			<b>1439</b>		<b>Services managers not elsewhere classified</b>
			14391	13196	General-manager, travel agency

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
14392	13196	Manager, information: tourist/ Department manager, production and operations/ travel agency	21119	21110	Physicist
14393	12290	Manager ,Conference center	21119	21110	Physicist, clinical
14394	12290	Manager, Contact center	21119	21111	Physicist, general
14395	12290	Manager ,Shopping center	21119	21110	Physicist, medical
14396	13150	Manager, camp site	21119	21110	Researcher, physics
14396	13150	Manager, caravan park	<b>2112</b>		<b>Meteorologists</b>
14396	13190	Manager, contact centre	21121	21120	Climatologist
14396	13150	Manager, general: camping site	21122	21121	Forecaster, weather
14396	13150	Manager, general: caravan park	21123	21122	Hydro grapher
<b>2111</b>		<b>Physicists and astronomers</b>	21124	21122	Meteorologist, climatology
21111	21111	Aerodynamicist	21125	21122	Observer, meteorological
21111	21110	Astronomer	21126	21120	Hydro meteorologist
21111	21111	Astrophysicist	<b>2113</b>		<b>Chemists</b>
21111	21111	Physicist , astronomy	21131	21130	Chemist (agriculture/ forest/ biological)
21112	21111	Physicist (atomic / molecular/ nuclear)	21132	21130	Chemist, analytical
21113	21113	Ballistician	21132	21130	Chemist, physical
21113	21111	Physicist, ballistics	21133	21130	Chemist, food
21114	21111	Physicist (electricity and magnetism/ electronics)	21134	21130	Chemist, glass
21115	21114	Hydro dynamicist	21135	21130	Chemist (industrial alcohols/ inorganic)
21115	21111	Physicist, (heat / hydrodynamics / thermodynamics/ mechanics)	21136	21130	Chemist ( leather/ dye/ paint/ textile)
21115	21116	Thermodynamicist	21137	21130	Chemist (organic/ petroleum/ plastics/polymer /rubber)
21116	21111	Physicist (light/ optics/ sound/ acoustics)	21138	21130	Chemist
21117	21111	Physicist ,rheology	21138	21130	Chemist, pharmaceutical
21117	21115	Rheologist	21138	21130	Chemist, research
21118	21111	Physicist (theoretical / solid- state)	21138	21130	Examiner, chemical
			21139	21130	Chemist, other/general
			21139	21130	Chemist ,chief
			21139	21131	Crystallographer

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>2114</b>		<b>Geologists and geophysicists</b>	21204	21212	Actuary
21141	21140	Geologist (any specialism)	21204	21211	Analyst, operations research
21142	21140	Glaciologist	21205	21222	Demographer
21142	21140	Hydrologist	21205	21220	Officer, census
21142	21140	Micropalaeontologist	21206	21220	Officer, statistical
21143	21140	Mineralogist	21207	21220	Officer, survey
21144	21140	Oceanographer, geological	21208	21220	Biometrician
21144	21140	Palaeontologist	21208	21220	Biostatistician
21145	21140	Petrologist	21208	21220	Chief statistician/ <b>Statistician</b>
21146	21140	Seismologist	21209	21220	Mathematicians, actuaries and statisticians n.e.c
21146	21140	Stratigrapher	<b>2131</b>		<b>Biologists, botanists, zoologists and related professionals</b>
21146	21140	Volcanologist			
21147	21141	Geodesist	21311	22120	Helminthologist
21147	21141	Geomagnetician	21311	22120	Herpetologist
21147	21141	Geomorphologist	21311	22120	Kinesiologist
21148	21142	Geophysicist (any specialism)	21311	22120	Lepidopterist
21148	21142	Gemmologist	21312	22124	Biophysicist / Biochemist
21148	21142	Geochemist	21313	22110	Bacteriologist (medical/ pharmaceutical/ soil/ other)
21148	21142	Geohydrologist	21313	22121	Pharmacologist
21148	21142	Geologist, engineering	21314	22122	Anatomist
21148	21142	Geotechnologist	21314	22122	Pathologist, plant
21148	21142	Hydrogeologist	21314	22122	Physiologist (plant/ insects)
21148	21142	Hydrometrist	21315	22110	Biologist (any specialism)
<b>2120</b>		<b>Mathematicians, actuaries and statisticians</b>	21316	22111	Botanist
21201	21210	Mathematician, actuarial science	21316	22111	Botanist ,economic
21202	21210	Mathematician, pure mathematics	21316	22111	Botanist, morphologist
21203	21210	Mathematician, applied mathematics	21316	22110	Cytologist (animal/plant)
			21316	22110	Embryologist

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21316	22110	Entomologist	21318	22115	Geneticist (animal)
21316	22111	Histologist (plant)	21318	22110	Geneticist, molecular
21316	22110	Histologist, animal	21318	22110	Hydro biologist
21316	22110	Microbiologist	21318	22120	Physiologist
21316	22111	Mycologist	21318	22110	Researcher, biomedical
21316	22110	Taxonomist	21318	22110	Researcher, clinical
21316	22112	Toxicologist animal/ <b>Plant</b>	21318	22110	Researcher, medical
21317	22112	Ichthyologist	21318	22110	Researcher, midwifery
21317	22114	Immunologist	21318	22110	Researcher, nursing
21317	22112	Mammalogist	21318	22110	Scientist, clinical
21317	22112	Nematologist	21318	22110	Scientist, food
21317	22112	Ornithologist	21318	22110	Scientist, health
21317	22112	Parasitologist	21318	22110	Scientist, medical
21317	22112	Pisciculturist	21318	22120	Toxicologist/ <b>Endocrinologist</b>
21317	22112	Protozoologist	21319	22110	Biologists, botanists, zoologists and related professionals,n.e.c
21317	22112	Scientist, animal husbandry	<b>2132</b>		<b>Farming, forestry and fisheries advisers</b>
21317	22112	Taxonomist (animal)	21321	32130	Adviser, grower's
21317	22112	Zoologist, assistant	<b>21321</b>	<b>32130</b>	<b>Arboriculturist</b>
21318	22112	Zoologist, any specialism	21321	22130	Advisor, forestry (professional)
21318	22110	Associate, research: clinical	21321	22130	Scientist( Forestry)
21318	22110	Associate, research: medical	21321	22130	Silviculturist
21318	22110	Bacteriologist	21322	22130	Pomologist
21318	22110	Behaviourist, animal	21323	32130	Advisor, (agricultural)
21318	22110	Biologist, marine	21323	32130	Scientist (agricultural )
21318	22110	Biologist, molecular	21323	32130	Specialist, agricultural extension
21318	22110	Biotechnologist	21323	22130	Agronomist
21318	22115	Engineer (genetics)	21324	22130	Scientist, crop research
21318	22123	Epidemiologist	21325	22130	Scientist, soil
21318	22115	Geneticist			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21326	22131	Advisor, farming (professional)	21336	22110	Officer, environmental
21326	22131	Scientist (animal)	21336	22110	Officer, environmental management
21326	22130	Demonstrator, farm	21336	22110	Officer, environmental protection
21326	22132	Superintendent, garden	21336	22110	Officer, environmental rehabilitation
21327	32130	Agent, field service: agriculture	21336	22110	Officer, environmental waste
21327	22130	Agriculturist	21337	22110	Environmental consultant
21327	22130	Agrologist	21338	22110	Environmental research scientist
21327	32130	Consultant, agricultural	21338	22110	Officer, flora and fauna management
21327	32130	Consultant, crop	21338	22110	Officer, natural resource management
21327	32130	Consultant, farm management	21338	22110	Officer, natural resource: ecology
21327	32130	Consultant, livestock	21338	22110	Officer, rehabilitation: environmental rehabilitation
21327	32130	Consultant, soil	21338	22110	Officer, revegetation
21327	21490	Engineer, agricultural	21338	22110	Officer, soil conservation
21327	22130	Engineer, forest	21338	22110	Officer, tree management
21327	32130	Officer, agricultural extension	21338	22110	Officer, vegetation management
21327	22110	Officer, fisheries management	21338	22110	Officer, water quality
21328	22130	Scientist, horticultural	21338	22110	Officer, waterways management
21328	22130	Specialist, crop	21338	22110	Officer, waterways program
21328	32130	Supervisor, agricultural extension	21338	22110	Officer, waterways: policy development
<b>2133</b>		<b>Environmental protection professionals</b>	21338	22110	Ranger, park: environmental protection
21331	22113	Ecologist, animal	21338	22110	Researcher, environmental
21332	22113	Ecologist (forest)	21338	22110	Researcher, salinity
21332	22113	Specialist, range management	21338	22110	Researcher, water quality
21333	22113	Ecologist (plant)	21338	22110	Researcher, water resources
21333	22113	Expert (plant protection)	21338	22110	Scientist, air quality
21334	22110	Air pollution analyst	21338	22110	Scientist, computer modelling: salinity
21335	22110	Conservation scientist			
21336	22110	Environmental advisor			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21338	22110	Scientist, conservation	21411	21491	Engineer, design (except computers)
21338	22110	Scientist, environmental	21412	21492	Designer, systems (except computers)
21338	22110	Scientist, environmental research	21414	21493	Engineer, industrial efficiency/ Layout
21338	22110	Scientist, salinity			
21338	22110	Scientist, water quality	21415	21493	Engineer, plant
21338	22110	Scientist, water resources	21416	21493	Engineer, production
21338	22110	Toxicologist, environmental	21416	21493	Engineer, work study
21339	22110	Analyst, air pollution	21417	21493	Engineer, safety
21339	22110	Analyst, land degradation	21418	21490	Engineer, food processing
21339	22110	Analyst, water quality	21418	21490	Engineer, industrial
21339	22110	Auditor, environmental	21418	21490	Engineer, manufacturing
21339	22110	Conservationist, soil	21418	21490	Engineer, methods
21339	22110	Consultant, ecological	21418	21490	Engineer, planning: production
21339	22110	Consultant, environmental	21418	21490	Engineer, process: manufacturing
21339	22110	Consultant, environmental management	21418	21490	Technologist, packaging
21339	22110	Consultant, land management: environmental management	<b>2142</b>		<b>Civil engineers</b>
21339	22110	Consultant, natural resource management	21421	21420	Civil-engineer, aerodrome construction
21339	22110	Coordinator, catchment: environment	21422	21420	Engineer (chief), building construction/ works
21339	22110	Coordinator, environmental	21423	21420	Civil-engineer, highway, street construction and bridge construction
21339	22110	Ecologist	21424	21420	Civil-engineer, hydraulic/ hydrology /irrigation
21339	22110	Environmental protection professional n.e.c	21425	21420	Civil-engineer, public health/ sanitary
21339	22110	Environmentalist	21426	21420	Civil-engineer, railway construction
21339	22110	Limnologist	21427	21420	Civil-engineer, soil mechanics
21339	22110	Officer, catchment management	21428	21421	Technologist (building materials/ civil works)
21339	22110	Officer, conservation	21428	21421	Tester, cement
<b>2141</b>		<b>Industrial and production engineers</b>	21429	21420	Civil-engineer, other ,n.e.c

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21429	21420	Engineer, civil	21444	21450	Mechanical-engineer, air-conditioning/ automotive
21429	21420	Engineer, dredging	21444	21450	Designer, Mechanical-engineer (diesel/ gas turbine/ heating, ventilation and refrigeration)
21429	21420	Engineer, geotechnical			
21429	21420	Engineer, hydraulics			
21429	21420	Engineer, hydrology	21444	21450	Mechanical-engineer, boiler and accessories
21429	21420	Engineer, irrigation	21444	21450	Designer motor-car
21429	21420	Engineer, public health	21444	21450	Mechanical-engineer, motors and engines (except marine)
21429	21420	Engineer, sanitary			
21429	21420	Engineer, soil mechanics	21445	21450	Designer, engine
21429	21420	Engineer, structural	21445	21450	Engineer, aeronautical
<b>2143</b>		<b>Environmental engineers</b>	21445	21440	Engineer, aerospace
21431	21490	Environmental engineer	21445	21450	Engineer, agricultural machines/ <b>air conditioning</b>
21432	21490	Air pollution control engineer	21445	21450	Mechanical/Engineer, industrial machinery and tools
21433	21490	Environmental analyst	21445	21450	Engineer, internal: combustion engine
21434	21490	Waste management engineer	21445	21450	Engineer, locomotive engine/ <b>automotive</b>
21435	21490	Environmental engineer (other)	21445	21450	Engineer, lubrication/ <b>diesel</b>
21436	21490	Analyst, environmental	21445	21450	Engineer, marine/ <b>gas turbine/heating</b>
21436	21490	Consultant, air pollution control	21445	21450	Engineer, mechatronics/ <b>cryogenic</b>
21436	21490	Consultant, environmental remediation	21445	21450	Engineer, motors and engines: mechanical
21436	21490	Engineer, air pollution control	21445	21450	Engineer, naval/ <b>instruments</b>
21436	21490	Engineer, process: wastewater	21445	21450	Engineer, naval: construction
21436	21490	Specialist, environmental remediation	21445	21450	Mechanical-engineer ( industrial machinery and tools/ instruments)
<b>2144</b>		<b>Mechanical engineers</b>	21445	21450	Technologist, engineering: mechanical
21441	21450	Engineer, ground/ jet engine/	21445	21450	Technologist, welding
21441	21450	Inspector, aero engines	21446	21450	Mechanical-engineer ( motors and engines (marine)/ ship construction)
21441	21450	Mechanical-engineer (aeronautics)			
21442	21450	Mechanical-engineer			
21443	21450	Mechanical-engineer, agriculture			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21447	21452	Mechanical-engineer (nuclear power/ cryogenic)	21458	21461	Consultant, engineering, chemical
21448	21453	Architect (marine/naval )	21458	21461	Engineer, petrochemical
21448	21453	Designer (aircraft)	21458	21461	Engineer, pharmaceutical
21449	21453	Technologist (mechanical) engineering	2146		Mining engineers, metallurgists and related professionals
2145		Chemical engineers			
21451	21460	Chemical-engineer (petroleum and natural gas)	21461	21470	Assayer. metallurgist
21451	21460	Engineer. natural gas production and distribution	21462	21471	Mining-engineer, all except petroleum and natural gas
21451	21460	Technologist (fuel/ chemical process)	21463	21471	Mining-engineer, petroleum and natural gas
21452	21461	Expert, (fiber / paper)	21464	21472	Technologist, extractive
21452	21461	Technologist (fiber / paper)	21465	21473	Metallurgist, extractive
21453	21461	Technologist, food and drink	21466	21473	Engineer, metallurgical
21454	21461	Technologist. Paint/ plastics/polymer/ tyre/ rubber	21467	21473	Metallurgist ( foundry / physical)
21455	21461	Technologist (sugar cane)	21468	21470	Engineer, foundry
21455	21461	Tester (butter and fat)	21468	21470	Metallurgist
21456	21461	Tester (compound and liquid gas)	21468	21473	Metallurgist, radioactive minerals
21457	21461	Tester moisture (grain)/ salt	2149		Engineering professionals not elsewhere classified
21458	21460	Engineer, chemical/other			
21458	21460	Engineer, chemical process	21491	21490	Architect, consulting
21458	21460	Engineer, chemical: petroleum and natural gas	21492	21491	Analyst, (communications/ systems, except computers)
21458	21460	Engineer, petroleum refinery	21492	21491	Engineer (communications/ systems, except computers)
21458	21460	Engineer, refinery process/maker	21493	21493	Engineer, spinning
21458	21460	Consultant,engineering, chemical	21494	21493	Engineer, time and motion study
21458	21460	Maker, wine	21495	21493	Engineer, weaving
21458	21460	Oenologist	21496	21497	Surveyor, quantity
21458	21460	Technologist, brewing	21497	21495	Technologist, cement/ glass/ceramics/ leather/ textiles/ wood
21458	21461	Technologist ,fiber(animal)			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21498	21490	Engineer, biomedical	<b>2152</b>		<b>Electronics engineers</b>
21498	21490	Engineer, ceramics	21521	21440	Electronics-engineer, computer hardware design
21498	21490	Engineer, cost: evaluation	21522	21440	Electronics-engineer, information engineering
21498	21490	Engineer, electric power generation: nuclear	21523	21440	Electronics-engineer, instrumentation
21498	21490	Engineer, explosive ordnance	21524	21440	Electronics-engineer, semiconductors
21498	21490	Engineer, marine salvage	21525	21440	Technologist, engineering (electronics)
21498	21490	Engineer, materials	21529	21440	Electronics-engineer (other)
21498	21490	Engineer, nuclear power	<b>2153</b>		<b>Telecommunications engineers</b>
21498	21490	Engineer, nuclear power generation	21531	21441	Telecommunications engineer, aerospace
21498	21490	Engineer, optical	21532	21442	Engineer, broadcasting
21498	21496	Engineer, robotics	21533	21442	Telecommunication-engineer, radar/signal systems
21498	21490	Technologist, printing	21534	21442	Telecommunication-engineer, radio/television/satellite TV
21499	21495	Technologist, other	21535	21442	Telecommunication-engineer, telephone/mobile/internet
<b>2151</b>		<b>Electrical engineers</b>	21536	21443	Telecommunication-engineer, cable
21511	21430	Electrical-engineer, electric power (high voltage)	21537	21443	Telecommunication-engineer, under water cable
21512	21430	Electrical-engineer, electric traction	21538	21440	Engineer, telegraph
21513	21430	Electrical-engineer, electromechanical equipment	21538	21440	Engineer, telephone
21514	21430	Electrical-engineer, illumination	21538	21440	Engineer, television
21515	21430	Engineer, transmission (electric power)	21538	21440	Technologist, engineering: telecommunications
21516	21431	Technologist, engineering (electrical)	21538	21440	Telecommunications engineers (other)
21517	21430	Designer, engine: electrical	<b>2161</b>		<b>Building architects</b>
21517	21430	Designer, motor: electrical	21611	21410	Architect, commercial building
21517	21430	Engineer, electrical			
21517	21430	Engineer, power distribution			
21517	21430	Engineer, power generation			
21517	21430	Engineer, systems : electrical			
21518	21430	Surveyor, electrical			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21612	21410	Architect, industrial building	21643	21412	Analyst, schedule (air transport)
21613	21410	Architect, institutional building	21644	21412	Engineer, traffic
21614	21410	Architect, recreational building	21645	21412	Planner, traffic
21615	21410	Assistant, architectural	21646	21412	Superintendent, divisional (railway)
21616	21410	Architect, interior	21647	21412	Superintendent, road transport
<b>2162</b>		<b>Landscape architects</b>	<b>2165</b>		<b>Cartographers and surveyors</b>
21621	21410	Architect, landscape			
21622	21410	Landscapist			
<b>2163</b>		<b>Product and garment designers</b>	21651	21480	Engineer, territory
21631	34710	Designer, display/exhibition	21652	21480	Leadsman / Leadsman (river survey)
21632	34710	Designer, fashion	21653	21480	Observer, field
21633	34710	Designer, commercial products	21653	21480	Off setter
21634	34710	Designer, stage set	21654	21480	Surveyor, general/ cadastral/ land
21635	34710	Designer, textile	21655	21480	Traverser
21636	34710	Designer, jewellery	21655	21480	Triangulator
21637	34711	Decorator, display (window)	21656	21480	Maker, map
21638	34711	Designer, display	21656	21480	Surveyor Geodesic/ hydrographic
21639	34710	Designer (other)	21656	21480	Surveyor, aerial
21639	34710	Designer, clothing	21656	21480	Surveyor, hydrographic
21639	34710	Designer, commercial: products	21656	21480	Surveyor, land
21639	34710	Designer, costume	21656	21480	Surveyor, photographic
21639	34710	Designer, dress	21656	21480	Surveyor, topographic
21639	34710	Designer, furniture	21657	21480	Surveyor, mining
21639	34710	Designer, garment	21658	21480	Surveyor, photogrammetric
21639	34710	Designer, industrial	21659	21482	Cartographer(including marine)
21639	34710	Designer, package	21659	21481	Computer, air survey
21639	34710	Designer, products	21659	21480	Leveler (railways/ topographic/ air)
<b>2164</b>		<b>Town and traffic planners</b>	21659	21481	photogrammetrist
21641	21411	Planner, town	21659	21481	Planetabler
21642	21411	Planner, urban			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
21659	21480	Surveyor, (railways/ topographic/ air)	22116	22210	Superintendent, medical
<b>2166</b>		<b>Graphic and multimedia designers</b>	22117	22214	Consultant, medical insurance
21661	34710	Designer, graphic	22118	22210	Consultant, medical: general practice
21662	34710	Designer, art (motion picture)	22118	22214	Doctor, medical (medical insurance consultancy)
21663	34710	Designer, multimedia (visual and audio media)	22118	22210	Doctor-therapist, district medical
21664	34710	Animator	22118	22210	Intern, medical
21665	34712	Illustrator, advertising/book	22118	22210	Officer, resident medical: specializing in general practice
21666	34710	Designer, publication	22118	22210	Physician, general medicine
21667	34710	Designer, web	22118	22210	Practitioner, general
21668	34710	Artist, commercial	22118	22210	Practitioner, medical
21668	34710	Artist, digital	22118	22210	Registrar, medical: general medicine
21668	34710	Author, dvd	22118	22210	Resident, medical: general medicine
21668	34710	Author, html			
21668	34710	Author, internet content	<b>2212</b>		<b>Specialist medical practitioners</b>
21668	34710	Author, multimedia	22121	22210	Anesthetists
21668	34710	Author, web	22121	22210	Anaesthesiologist
21668	34710	Author, website	22121	22210	Doctor, anaesthetics
21668	34710	Designer, animation	22121	22210	Registrar, anaesthetics
21668	34710	Designer, computer games	22122	22210	Cardiologist
21668	34710	Designer, poster	22122	22210	Surgeon, cardiology
21668	34710	Designer, typographical	22122	22210	Surgeon, cardiothoracic
<b>2211</b>		<b>Generalist medical practitioners</b>	22123	22210	Dermatologist
22111	22210	Physician/ Physician, medical service(school)	22123	22210	Registrar, dermatology
22112	22210	Family medical practitioner	22124	22210	Gynecologist
22113	22210	Doctor, medical (general)	22124	22210	Physician, specialist
22114	22210	Medical officer (general)	22124	22210	Doctor, obstetrics
22115	22210	Primary health physician	22124	22210	Doctor, pediatrics

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
22124	22210	Nephrologist	22128	22210	Surgeon .any specialism(except dental)
22124	22210	Obstetrician	22128	22210	Registrar, neurology
22124	22210	Paediatrician	22128	22210	Surgeon, medical
22124	22210	Pediatrician	22128	22210	Doctor neurology
22124	22210	Registrar, obstetrics	22128	22210	Registrar,radiology
22124	22210	Registrar, pediatrics	22128	22210	Neurologist/Neurosurgeon/ Neuropathologist
22125	22210	Hematologist	22129	22210	Consultant, endocrinology
22125	22210	Malariologist	22129	22210	Consultant, medical: specialist
22125	22210	Allergist, clinical	22129	22210	Consultant, medical: specialist physician
22126	22210	Otorhinologist (E.N.T)	22129	22210	Dialectologist
22126	22210	Otolaryngologist	22129	22210	Doctor, medical (any specialism)
22126	22210	Otologist	22129	22210	Doctor, otorhinolaryngology
22126	22210	Otorhinolaryngologist	22129	22210	Doctor, psychiatry
22126	22210	Registrar, otorhinolaryngology	22129	22210	Endocrinologist
22127	22210	Ophthalmologist	22129	22210	Gastroenterologist
22127	22210	Pathologist	22129	22210	Geriatrician
22127	22210	Pathologist, clinical	22129	22210	Immunologist, clinical
22128	22210	Neurologist	22129	22210	Intern, medical: in specialist training
22128	22210	Radiologist	22129	22210	Laryngologist
22128	22210	Specialist, emergency medicine	22129	22210	Neonatologist
22128	22210	Specialist, intensive care	22129	22210	Neuropathologist
22128	22210	Specialist, internal medicine	22129	22210	Neurosurgeon
22128	22210	Specialist, medical	22129	22210	Officer, medical: specialist
22128	22210	Specialist, preventive medicine	22129	22210	Officer, resident medical: in specialist training
22128	22210	Surgeon, neurosurgery	22129	22210	Oncologist
22128	22210	Surgeon, orthopaedic	22129	22210	Oncologist, radiation
22128	22210	Surgeon, osteopathic	22129	22210	Physician, specialist
22128	22210	Surgeon, plastic			
22128	22210	Surgeon, thoracic			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
22129	22210	Physician, specialist: internal medicine	22218	22300	Anaesthetist, nurse
22129	22210	Physician, specialist: nuclear medicine	22218	22300	Consultant, nurse: clinical
22129	22210	Physician, sports	22218	22300	Nurse, charge
22129	22210	Pneumologist	22218	22300	Nurse, consultant: clinical
22129	22210	Practitioner, medical: specialist (public health)	22218	22300	Nurse, district
22129	22210	Registrar, endocrinology	22218	22300	Nurse, industrial
22129	22210	Registrar, gastroenterology	22218	22300	Nurse, operating theatre
22129	22210	Registrar, geriatrics	22218	22300	Nurse, orthopaedic
22129	22210	Registrar, gynaecology	22218	22300	Nurse, public health
22129	22210	Registrar, intensive care	22218	22300	Nurse, registered
22129	22210	Registrar, internal medicine	22218	22300	Nurse, specialist
22129	22210	Registrar, medical: specialist	22218	22300	Practitioner, nurse
22129	22210	Registrar, oncology	22218	22300	Sister, operating theatre
22129	22210	Registrar, ophthalmology	<b>2222</b>		<b>Midwifery professionals</b>
22129	22210	Registrar, psychiatry	22221	22302	Midwife, professional
22129	22210	Registrar, radiology	22221	22300	Educator, midwife
22129	22210	Resident, medical: specialist	22221	22300	Practitioner, midwife
22129	22210	Rheumatologist	<b>2230</b>		<b>Traditional and complementary medicine professionals</b>
22129	22210	Rhinologist	22301	32290	Doctor, homoeopathic
<b>2221</b>		<b>Nursing professionals</b>	22301	32290	Homeopath
22211	22300	Nurse, clinical	22302	32290	Hakim
22212	22300	Nurse, educator	22302	32410	Practitioner, tcm
22213	22300	Master, ward (hospital)	22302	32290	Tabib
22214	22300	Nurse, (head) (professional)	22302	32410	Therapist, unani
22215	22300	Nurse (professional), any specialism	22302	32290	Veids
22216	22300	Officer, principal nursing (professional)	22303	32290	Unani practitioner
22217	22300	Sister, nursing (professional)	22304	32290	Acupuncturist
			22305	32410	Doctor, chinese medicine

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
22305	32410	Practitioner, chinese medicine	22503	22230	Veterinarian
22305	32410	Practitioner, herbal medicine: chinese	22503	22230	Veterinary Doctor
22305	32410	Specialist, chinese medicine	22504	22230	Intern, veterinary
22305	32410	Herbalist, chinese medicine	22504	22230	Veterinarian, epidemiology
22665	32410	Orthoptist	22505	22230	Veterinarian, public health
22674	32410	Orthophonist	22506	22231	Surgeon, veterinary
22697	32410	Therapist,orientation of the blind/therapist, speech	22507	22120	Pathologist, veterinary
			<b>22614</b>		<b>Dentists</b>
22309	32290	Traditional medicine professionals n.e.c	22611	22220	Dentist/ Dentist (public health)
22309	32410	Doctor, naturopathy	22612	22221	Orthodontist
22309	32410	Hypnotherapist	22613	22221	Endodontist
22309	32410	Naturopath	22613	22221	Pedodontist
22309	32410	Practitioner, acupuncture	22613	22221	Prosthodontist
22309	32410	Practitioner, ayuverdic n.e.c.	22614	22222	Dentist, oral surgery
<b>2240</b>		<b>Paramedical practitioners</b>	22615	22120	Pathologist, oral
22401	32210	Advanced care paramedic	22616	22220	Oral and Maxillofacial Surgeon
22402	32210	Clinical officer (paramedical)	22616	22220	Practitioner, dental
22403	32210	Feldscher	22616	22220	Stomatologist
22404	32210	Primary care paramedic	22616	22220	Surgeon, dental
22405	32210	Surgical technician	22616	22220	Surgeon, maxillofacial
22405	32113	Technician(operation theatre// surgical)	22616	22220	Surgeon, oral
22406	32210	Assistant, clinical: diagnosing and treating patients	<b>2262</b>		<b>Pharmacists</b>
22406	32210	Assistant, medical: diagnosing and treating patients	22621	22240	Druggist
22406	32210	Technician, caesarean section	22622	22240	Pharmacist/ Pharmacist (hospital)
			22623	22240	Pharmacist, industrial
<b>2250</b>		<b>Veterinarians</b>	22624	22240	Pharmacist, wholesale/retail
22501	22230	Pharmacologist, veterinary	22625	22240	Dispensing chemist
22502	22230	Specialist, dairy	22626	22240	Chemist, hospital
			22626	22240	Chemist, retail

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
22626	21133	Dawasaz	22642	32260	Ortho paedic physical therapist
22626	22240	Intern, pharmacy	22643	32260	Paediatric physical therapist,
<b>2263</b>		<b>Environmental and occupational health and hygiene professionals</b>	22644	32260	Geriatric physical therapist,
			22645	32260	Therapist, manipulative
22631	22290	Professionals, health (except nursing)	22645	32260	Therapist, physical
22632	22290	Environmental health officer	<b>2265</b>		<b>Dieticians and nutritionists</b>
22633	22290	Occupational health and safety advisor	22651	32230	Consultant, dietetic (food processing)
22634	22290	Occupational hygienist	22652	32230	Dietician (therapeutic)
22635	22290	Radiation protection expert	22653	32230	Nutritionist (public health/sports)
22636	32220	Adviser, environmental health	22654	32290	Audiometrist
22636	31520	Adviser, occupational health and safety	22654	32230	Consultant, dietetic
22636	31520	Adviser, occupational hygiene	<b>2266</b>		<b>Audiologists and speech therapists</b>
22636	32220	Adviser, radiation protection	22661	32290	Audiologist
22636	32220	Consultant, environmental health	22662	32290	Language therapist
22636	31520	Consultant, occupational health and safety	22663	32292	Speech therapist
22636	31520	Consultant, occupational hygiene	22664	32290	Speech pathologist
22636	32220	Consultant, radiation protection	22665	32290	Orthoepist
22636	32220	Expert, radiation protection	22665	32290	Ortho phoniest
22636	31520	Hygienist, occupational	22665	32290	Pathologist, speech
22636	32220	Officer, environmental health	<b>2267</b>		<b>Optometrists and ophthalmic opticians</b>
22636	31520	Officer, occupational health and safety	22671	32240	Optician, ophthalmic
22636	31520	Officer, occupational hygiene	22672	32241	Optometrist
22636	24120	Officer, personnel: safety	22673	32240	Orthoptist
22636	32220	Officer, radiation protection	<b>2269</b>		<b>Health professionals not elsewhere classified</b>
22636	32220	Officer Public health	22691	32260	Podiatrist
<b>2264</b>		<b>Physiotherapists</b>	22692	32260	Therapist, inhalation
22641	32260	Physiotherapist			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
22693	32261	Therapist, occupational	23108	23103	Teacher, government department training schools
22694	32261	Therapist, recreational	23109	23100	Lecturer, higher education
22695	32260	Dance and movement therapist/ Gymnast	23109	23103	Teacher, post -secondary education (all subjects)
22696	51410	Chiropodist	23109	23100	Teacher, university
22697	32260	Chiropractor	23109	23100	Tutor, university
22697	32260	Doctor, chiropractic	<b>2320</b>		<b>Vocational education teachers</b>
22697	32260	Gymnast, remedial			
22697	32260	Therapist, arts	23201	23201	Instructor, technical training
22697	32260	Therapist, blind	23201	23201	Teacher, technical training
22697	32260	Therapist, drama	23202	23100	Instructor, vocational training
22697	32260	Therapist, music	23202	23100	Teacher, vocational training
22697	32260	Therapist, orientation of the blind	23203	23200	Instructor, automotive technology
22697	32260	Therapist, poetry	23203	23200	Instructor, cosmetology
<b>2310</b>		<b>University and higher education teachers</b>	23203	23200	Instructor, vocational education
23101	23100	Lecturer, university (all subjects)	23203	23100	Lecturer, college: vocational education
23101	23101	Professor, university (all subjects)	23203	23100	Lecturer, vocational education
23101	23102	Reader, university (all subjects)	<b>2330</b>		<b>Secondary education teachers</b>
23102	23100	Lecturer, academy (all subjects)	23301	23200	Teacher, secondary education (all subjects)
23102	23101	Professor, academy (all subjects)	23302	23202	Teachers, dar-ul-uloom
23102	23102	Reader, academy (all subjects)	23303	23202	Teacher, faith (other)
23103	23100	Lecturer, college (all subjects)	23304	23203	Teacher, oriental schools/colleges
23103	23101	Professor, college (all subjects)	<b>2341</b>		<b>Primary school teachers</b>
23104	23100	Assistant, research (audio visual)	23411	33100	Teacher, primary education/ reading/ writing ( associate professional)
23105	23100	Instructor, extension work			
23106	23103	Instructor, civil defence training	23411	23310	Teacher, primary education/ reading/ writing (professional)
23107	23103	Instructor, military science	23412	23310	Master, primary education
			23412	23310	Mistress, primary education



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>2342</b>		<b>Early childhood educators</b>	23523	23400	Teacher, special education for the deaf / dumb (professional associate)
23421	23320	Teacher, kindergarten/nursery (professional)	23524	23400	Teacher, special education for the physically/ mentally handicapped (professional/associate)
23421	33200	Teacher, kindergarten/nursery(associate professional)	23525	23400	Teacher, special education remedial (professional/associate)
23422	33200	Teacher, pre-primary education (associate professional)	23526	33300	Instructor, Braille
23422	23320	Teacher, pre-primary education (professional)	23527	23400	Teacher, learning support
<b>2351</b>		<b>Education methods specialists</b>	23527	23400	Teacher, of gifted children
23511	23510	Adviser, education (professional)	23527	23400	Teacher, of the hearing impaired
23512	23510	Adviser, teaching methods (professional)	23527	23400	Teacher, of the sight impaired
23513	23511	Developer, curricula	23527	23400	Teacher, special education: learning disabilities
23514	23512	Specialist, audio-visual and other teaching aids	<b>2353</b>		<b>Other language teachers</b>
23515	23520	Inspector, school	23531	33400	Intensive language teacher
23516	23520	Inspector, special institutions	23532	23590	Practical language teacher
23517	23510	Adviser, education	23533	23590	Migrant education teacher
23517	23510	Adviser, education: methods	23534	33400	Second language teacher
23517	23510	Consultant, education	23535	23590	Tutor, after school: languages
23517	23510	Coordinator, curriculum	23535	23590	Tutor, language: private tuition
23517	23510	Developer, curriculum	23536	23590	Teacher, EFL
23517	23510	Specialist, education: methods	23536	23590	Teacher, English as a second language
23517	23510	Specialist, visual: teaching aids	23536	23590	Teacher, ESL
23518	23510	Adviser, academic	<b>2354</b>		<b>Other music teachers</b>
<b>2352</b>		<b>Special needs teachers</b>	23541	23590	Guitar/ Piano/ Violin teacher
23521	23400	Teacher, remedial (professional/associate)	23542	23590	Singing teacher
23522	23400	Teacher, special education for the blind (professional/associate)	23543	23590	Coach, vocal
			23543	23590	Teacher, music: private tuition
			23543	23590	Teacher, singing: private

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		tuition	<b>2359</b>		<b>Teaching professionals not elsewhere classified</b>
23543	23590	Tutor, music: private tuition			
23543	23590	Tutor, private tuition: singing	23591	23590	Tutor (private tuition)
<b>2355</b>		<b>Other arts teachers</b>	23592	23590	Teacher(private academy)
23551	2359	Dance teacher	23592	23590	Instructor, flying
23552	23590	Drama teacher	23593	23590	Adviser, student
23553	23590	Painting teacher	23593	33400	Coach, debating
23554	23590	Sculpture teacher	23593	33400	Coach, mathematics: private tuition
23555	23590	Coach, dance	23594	23590	Counsellor, college
23555	33400	Coach, dance sport	23594	23590	Counsellor, school
23555	33400	Instructor, dance	23594	23590	Counsellor, student
23555	23590	Manager, dance studio: instructing	23595	33400	Tutor, after school: mathematics
23555	23590	Teacher, drama: private tuition	23595	33400	Tutor, calligraphy
23555	23590	Teacher, painting: private tuition	23595	33400	Tutor, chemistry: private tuition
23555	23590	Teacher, sculpture: private tuition	23595	33400	Tutor, coaching college
23555	23590	Tutor, art: private tuition	23595	33400	Tutor, dressmaking: private tuition
23555	23590	Tutor, dance: private tuition	23595	33400	Tutor, elocution: private tuition
23555	23590	Tutor, drama: private tuition	23595	33400	Tutor, handicrafts: private tuition
23555	23590	Tutor, painting: private tuition	23595	33400	Tutor, literacy and numeracy: private tuition
<b>2356</b>		<b>Information technology trainers</b>	23595	33400	Tutor, private tuition
23561	23590	Computer trainer	23595	33400	Tutor, math's: private tuition
23562	23590	Software trainer	<b>2411</b>		<b>Accountants</b>
23563	23590	Computer hardware trainer	24111	24110	Accountant (professional)
23564	23590	Consultant, computer training	24112	24110	Accountant, auditing
23564	23590	Consultant, information technology: training	24113	24110	Accountant, budget
23564	23590	Trainer, information technology	24114	24110	Chartered/ Certified accountant
23564	23590	Trainer, internet	24115	24110	Tax accountant
23564	23590	Trainer, IT	24116	24110	Financial controller

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
24117	24111	Auditor (professional)	24125	24190	Adviser, wealth management
24118	24110	Accountant, management	24125	24110	Consultant, financial
24118	24110	Accountant, other	24125	24190	Consultant, financial advice
24118	24110	Adviser, taxation	24125	24190	Consultant, investment: advising clients
24118	24110	Assignee, bankruptcy	24125	24190	Consultant, property: investment
24118	24110	Assignee, insolvency	24125	24190	Consultant, superannuation: providing advice
24118	24110	Bursar	24125	24190	Para planner, financial
24118	24110	Consultant, accountancy	24125	24190	Adviser, debt
24118	24110	Consultant, audit	24125	24190	Adviser, pensions
24118	24110	Controller, financial	24125	24190	Consultant, pensions
24118	24110	Examiner, audit			
24118	24110	Examiner, bankruptcy	<b>2413</b>		<b>Financial analysts</b>
24118	24110	Examiner, insolvency	24131	24112	Financial analysts
24118	24110	Inspector, cooperative societies	24132	24190	Investment consultant
24118	24110	Liquidator, company	24133	24190	Securities consultant
24118	24110	Liquidator, financial	24134	24190	Bond analyst
24118	24110	Officer, audit	24135	24190	Analyst, financial: investments
24118	24110	Practitioner, insolvency	24135	24190	Analyst, investment
24118	24110	Receiver, bankruptcy	24135	24190	Analyst, securities
24118	24110	Receiver, official	24135	24190	Consultant, investment: financial analysis
24118	24110	Specialist, insolvency			
24118	24110	Trustee, bankruptcy	<b>2421</b>		<b>Management and organization analysts</b>
24118	24110	Trustee, insolvency	24211	24190	Organization and methods analyst
<b>2412</b>		<b>Financial and investment advisers</b>	24212	24190	Business consultant
24121	24110	Financial advisor	24213	24190	Management consultant
24122	24110	Investment advisor	24214	24190	Analyst, cost
24123	24190	Estate planner	24214	24190	Analyst, management
24124	24110	Financial planner	24214	24190	Consultant, management
24125	24190	Adviser, superannuation	24214	24190	Facilitator, quality

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
24214	31520	Inspector, quality: services	24231	24120	Adviser, careers (professional)/ occupational
24214	24193	Specialist, business efficiency	24232	24120	Counsellor, employment/ vocational guidance
<b>2422</b>		<b>Policy administration professionals</b>	24233	24120	Specialist, personnel and occupational
24221	24190	Policy analyst	24234	24121	Conciliator, labour-management relations
24222	24190	Policy analyst, administration	24235	24122	Interviewer, employment
24223	24190	Adviser, political	24236	24120	Adviser, human resources
24223	24190	Adviser, public policy	24236	24120	Adviser, industrial relations
24223	24190	Analyst, intelligence	24236	24120	Adviser, labour relations
24223	24190	Analyst, security: policy	24236	24120	Adviser, workplace relations
24223	24190	Analyst, treasury: government policy	24236	24120	Analyst, job
24224	24190	Consultant, health care planning	24236	24120	Analyst, occupational
24224	24190	Consultant, security: policy	24236	24120	Arbitrator, industrial relations
24224	24190	Consultant, social policy	24236	24120	Conciliator, labour relations
24225	24190	Officer, intelligence	24236	24120	Conciliator, workplace
24225	24190	Officer, parliamentary: research	24236	24120	Consultant, human resources
24225	24190	Officer, public policy	24236	24120	Consultant, personnel
24225	24190	Officer, security: policy	24236	24120	Consultant, recruitment
24226	24190	Planner, social	24236	24120	Expert, human resources
24226	24190	Researcher, developing or analysing government policy	24236	24120	Expert, outplacement
24226	24190	Researcher, health: policy	24236	24120	Mediator, workplace
24226	24190	Researcher, reviewing policy	24236	24120	Officer, recruitment
24227	34490	Censor, film	24237	24120	Headhunter
24227	34490	Censor, government	<b>2424</b>		<b>Training and staff development professionals</b>
24228	24190	Analyst ,strategy	24241	24122	Officer, labour welfare
24228	24190	Strategist	24242	24122	Officer, personnel
<b>2423</b>		<b>Personnel and careers professionals</b>	24243	24122	Officer, staff training

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
24244	24123	Officer, industrial relations	24321	24190	Agent, publicity
24245	24120	Officer, occupational	24322	24190	Officer, press liaison
24245	24120	Officer personal safety	24323	24190	Officer, public information/relations
24246	24120	Consultant, staff development: training	24324	24510	Copywriter, publicity
24246	24120	Officer, staff development	24324	24190	Engineer, organization and method
24246	24120	Specialist, workforce development	24325	24190	Analyst, communications: except computers
24246	24120	Trainer, staff development	24325	24190	Consultant, communications
24247	24120	Assessor, training	24325	24190	Consultant, public relations
24247	24120	Coach, executive	24325	24190	Executive, account: public relations
<b>2431</b>		<b>Advertising and marketing professionals</b>	24325	24190	Lobbyist
24311	24192	Accountant (executive), advertising	24325	24190	Manager, account: public relations
24312	24192	Analyst, market research	24325	24190	Publicist
24313	24192	Specialist, sales promotion methods	24325	24190	Secretary, press
24315	24194	Agent, patent	24325	24510	Writer, copy: public relations
24316	24510	Copywriter, advertising	24325	24510	Writer, publicity
24317	24190	Consultant, advertising	<b>2433</b>		<b>Technical and medical sales professionals (excluding ICT)</b>
24317	24190	Consultant, market: research	24331	34150	Agent, sales (engineering/technical)
24317	24190	Consultant, marketing	24332	34150	Representative, medical
24318	24190	Executive, account: advertising	24333	34150	Representative, sales (engineering/technical)
24318	24190	Executive, account: marketing	24334	34150	Salesperson, engineering/technical
24318	24190	Manager, account: marketing	24335	34151	Agent, manufacturer's
24318	24190	Researcher, market	24335	34151	Sales representative
24318	24190	Specialist, advertising	24336	34150	Agent, sales: medical
24318	24190	Specialist, marketing	24336	34150	Consultant, sales: engineering
24318	24190	Specialist, sales: promotion (methods)			
<b>2432</b>		<b>Public relations professionals</b>			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
24336	34150	Consultant, sales: technical except , information and communications technology (ICT)	24347	34150	Consultant, sales: technical (ICT)
			24348	34150	Engineer, sales: ICT
24336	34150	Engineer, sales: except ICT	24348	34150	Executive, account: sales (information and communications technology)
24336	34150	Executive, account: sales (industrial products)	24348	34150	Manager, account: computer technology
24336	34150	Executive, account: sales (medical products)	24348	34150	Manager, account: ICT
24336	34150	Executive, account: sales (pharmaceuticals)	24348	34150	Manager, account: sales (information and communications technology)
24336	34150	Manager, account: sales (industrial products)	24348	34150	Manager, business development: ICT
24336	34150	Manager, account: sales (medical products)	24348	34150	Representative, sales: information technology
24336	34150	Manager, account: sales (pharmaceuticals)	24348	34150	Representative, sales: technical (ICT)
24336	34150	Representative, sales: industrial products	24348	34150	Salesperson, communications technology
24336	34150	Executive account sales (industrial products)	24348	34150	Salesperson, computer systems
<b>2434</b>		<b>Information and communications technology sales professionals</b>	24348	34150	Salesperson, information technology
			<b>2511</b>		<b>Systems analysts</b>
24341	34150	Representative, sales (computer)	25111	21312	Systems analyst, (IT)
24342	34150	Representative, sales (telecommunication technology)	25112	21310	Business analyst (IT)
24343	34150	Representative, sales (computer hardware)	25113	21310	Systems consultant
24344	34150	Representative, sales (computer software)	25114	21310	Systems designer (IT)
24345	34150	Representative, sales (other ICT)	25115	21310	Computer scientist
24346	34150	Agent, sales: communications (technology)	25116	21310	Administrator, SAP: business analysis
24346	34150	Agent, sales: computer (systems)	25116	21310	Analyst, business: systems design
24346	34150	Agent, sales: information technology	25116	21310	Analyst, computer: business analysis
24347	34150	Consultant, sales: computer systems	25116	21310	Analyst, information systems
24347	34150	Consultant, sales: information technology	25116	21310	Analyst, SAP
			25116	21310	Analyst, systems: computers



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
25116	21310	Architect, business solutions	25137	21310	Developer, applications: computing (internet)
25116	21310	Architect, business: business analysis	25137	21310	Developer, applications: computing (web)
25116	21310	Architect, information: business analysis	25137	21310	Developer, computer game
25117	21310	Consultant, business: information technology	25137	21310	Developer, dhtml
25117	21310	Designer, systems: computers	25137	21310	Developer, flash
25117	21310	Designer, systems: IT	25137	21310	Developer, html
25117	21310	Engineer, business process: information technology	25137	21310	Developer, interactive
25117	21310	Technologist, information: business analysis	25137	21310	Developer, internet applications
<b>2512</b>		<b>Software developers</b>	25137	21310	Developer, internet multimedia
25121	21310	Software engineers	25137	21310	Developer, internet software
25122	21310	Software designer	25137	21310	Developer, multimedia
25123	21310	Software developer	25137	21310	Developer, video game
25124	21310	Programmer analyst	25137	21310	Developer, web
25125	21310	Developer, applications: computing (except web)	25137	21310	Developer, web applications
25125	21390	Engineer, computer: applications	25137	21310	Developer, web software
25125	21310	Engineer, computer: systems	25137	21310	Developer, webpage
<b>2513</b>		<b>Web and multimedia developers</b>	25138	21310	Engineer, internet: programming
25131	21310	Website developer	25138	21320	Programmer, computer: internet
25132	34390	Website architect	25138	21320	Programmer, computer: web
25133	21310	Multimedia programmer	25138	21320	Programmer, computer: website
25134	21310	Internet developer	25138	21320	Programmer, dhtml
25135	21390	Computer programmer games	25138	21320	Programmer, html
25136	21310	Animation programmer	25138	21320	Programmer, internet
25137	21310	Consultant, internet: developing websites	25138	21320	Programmer, internet applications
25137	21320	Consultant, internet: programming	25138	21320	Programmer, web
			25138	21320	Programmer, website
			25138	21390	Specialist, multimedia

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>2514</b>		<b>Applications programmers</b>	25216	21320	Programmer, database
25141	21320	Applications programmer	<b>2522</b>		<b>Systems administrators</b>
25142	21320	Programmer, computer	25221	21310	Network administrator
<b>2519</b>		<b>Software and applications developers and analysts not elsewhere classified</b>	25221	21310	System administrator
25191	21310	Quality assurance analyst (computers)	25221	21310	Administrator, computer: systems administration
25192	21310	Software tester	25221	21310	Administrator, network
25192	21310	Systems tester	25221	21310	Administrator, systems: computers
25193	21310	Analyst, business: testing software	25221	21310	Administrator, unix
25193	21310	Analyst, software: testing	25221	21310	Administrator, WAN
25193	21390	Coordinator, software testing	25222	21310	Analyst, infrastructure: systems administration
25193	21390	Coordinator, test: software	25222	21310	Consultant, computer systems: managing system
25193	21390	Manager, deployment: information and communication technology (ICT)	25222	21310	Consultant, information systems: managing system
25193	21390	Manager, release: projects (ICT)	25222	21310	Consultant, information technology: managing system
25193	21390	Manager, release: systems (ICT)	25222	21310	Consultant, information technology: unix administration
25193	21320	Programmer, computer: applications testing	25222	21310	Coordinator, information services: managing computer system
25193	21320	Programmer, computer: testing (software)	25223	21310	Engineer, server
<b>2521</b>		<b>Database designers and administrators</b>	25223	21310	Manager, computer systems: systems administration
25211	21312	Database analyst	25223	21310	Manager, information systems: systems administration
25211	21312	Database architect	25223	21310	Manager, information technology: systems administration
25212	21313	Database administrator	25224	21310	Officer, computer systems: managing system
25213	21310	Data administrator	25224	21310	Officer, support: network administration
25214	21310	Developer, database			
25215	21310	Manager, database			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
25224	21310	Officer, systems support: systems administration	<b>2611</b>		<b>Lawyers</b>
25224	21310	Officer, technology: systems administration	26111	24210	Advocate
25225	21310	Specialist, network: computing (managing system)	26111	24210	Advocate general
25225	21310	Technologist, information: systems administration	26111	24210	Attorney (professional)
			26111	24210	Barrister
			26111	24210	Lawyer, any specialism
<b>2523</b>		<b>Computer network professionals</b>	26111	24210	Prosecutor
25231	21312	Communications analyst (computers)	26112	24211	Commissioner, oath
25232	21310	Network analyst	26112	24211	Solicitor
			26113	24290	Adviser, legislative
<b>2529</b>		<b>Database and network professionals not elsewhere classified</b>	26113	24290	Attaché, legal
25291	21390	Computer security specialist (ICT)	26114	24290	Counsel, legal
25292	21390	Digital forensic specialist	26114	24290	Drafter, parliamentary
25293	21390	Data miner	26114	24290	Jurisconsult
25294	21390	Analyst, security: computer	26114	24290	Jurist, lawyer
25294	21390	Analyst, security: data	26115	24290	Litigator
25294	21390	Analyst, security: ICT	26115	24290	Officer, legal
25294	21390	Auditor, information technology	26115	24290	Partner, law
25295	21390	Consultant, data mining	<b>2612</b>		<b>Judges</b>
25295	21390	Consultant, digital forensics	26121	24220	Chief justice, high court/ supreme court/ other
25295	21390	Consultant, security: computer	26121	24220	Judge, (civil/ district court / high court/ supreme court/ other)
25295	21390	Consultant, security: data	26121	24220	Justice , high court/ supreme court/ other
25295	21390	Consultant, security: ICT	26122	24220	Officer, presiding (labour)
25295	21390	Specialist, security: data	26123	24221	Magistrate
25295	21390	Specialist, security: ICT	<b>2619</b>		<b>Legal professionals not elsewhere classified</b>
25296	21390	Analyst, data mining	26191	24290	Adviser, legal (professional)
25296	21390	Scientist, data mining	26192	24290	Referee, appeals (social security claims)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26193	24292	Attorney, insurance claims	26224	24320	Cataloguer
26194	24294	Jurist, except lawyer or judge	26225	24320	Officer, information
26195	24295	Notary (public)	26226	24320	Scientist, information
26196	24296	Coroner	<b>2631</b>		<b>Economists</b>
26196	24290	Gardawar	26311	24410	Economic advisor
26196	24290	Mukhtarcar	26311	24410	Economist (any specialism)
26196	24290	Qanoongo	26312	24410	Economic analyst
26197	24290	Patwari ,canals/revenue	26313	24411	Econometrician
26197	24290	Tapedar	26314	24410	Adviser, economic policy
26197	24290	Tehsildar	26315	24410	Consultant, economic development
26198	24292	Attorney, insurance claims	26316	24410	Economist, labour
26198	24293	Drafter, legal	26317	24410	Macroeconomist
26198	24291	Referee ,appeals(social security claims)	<b>2632</b>		<b>Sociologists, anthropologists and related professionals</b>
26198	24293	Writer, petition			
<b>2621</b>		<b>Archivists and curators</b>			
26211	24310	Archivist	26321	24420	Pathologist, social
26212	24311	Curator, (art gallery/ museum	26321	24420	Sociologist, any specialism
26213	24310	Manager, data	26322	24421	Anthropologist
26214	24310	Manager, information	26322	24421	Ethnologist
26215	24310	Manager, records	26323	24422	Archaeologist
26216	24310	Conservator	26323	24422	Engineer, archaeology
<b>2622</b>		<b>Librarians and related information professionals</b>	26324	24423	Criminologist
			26325	24424	Geographer, any specialism
26221	24320	Bibliographer	26326	24420	Penologist
26221	24320	Cataloguer (library)	26326	24420	Researcher, social
26221	24320	Librarian	26326	24420	Scientist, social
26222	24322	Scientist, information (business services)	<b>2633</b>		<b>Philosophers, historians and political scientists</b>
26223	24321	Document list			
26223	24322	Scientist, information (technical information)	26331	24430	Philosopher (any specialism)
			26332	24431	Historian (any specialism)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26333	24432	Scientist, political			(professional)
26334	24433	Genealogist	26357	24460	Counsellor, addictions
26335	24430	Futurologist	26357	24460	Counsellor, bereavement
26336	24430	Researcher, peace	26357	24460	Counsellor, child and youth
26336	24430	Researcher, political	26357	24460	Counsellor, family
<b>2634</b>		<b>Psychologists</b>	26357	24460	Counsellor, marriage
26341	24450	Clinical Psychologist	26357	24460	Counsellor, sexual assault
26341	24450	Psychotherapist	26357	24460	Housemaster, professional: approved school
26342	24450	Educational Psychologist	26357	24460	Housemistress, professional: approved school
26342	24450	Organizational Psychologist	26357	24460	Officer, district: social welfare
26343	24450	Analyst, psychological	26357	24460	Officer, parole
26344	24450	Psychologist, sports	26357	24460	Organizer, women's welfare
26345	24450	Therapist, psychological	26357	24460	Professional, counseling
26346	24450	Psychometrist	26357	24460	Psycho educator
<b>2635</b>		<b>Social work and counseling professionals</b>	26358	24460	Therapist, family
26351	24460	Almoner (professional)	26358	24460	Therapist, marriage
26351	24460	Caseworker, (child/family/social welfare) (professional)	26358	24460	Therapist, relationship
26351	24460	Housefather /mother (professional)	26358	24460	Therapist, sex
26352	24460	Social/welfare worker, medical, psychiatric (professional)	26358	24460	Warden, probation home: professional
26353	24460	Social/welfare worker, community/cultural centre (professional)	26358	24460	Worker, delinquency: professional
26354	24460	Social/welfare worker, any other specialism (professional)	<b>2636</b>		<b>Religious professionals</b>
26355	24461	Warden, community centre/ , approved school (professional)	26361	24600	Allama
26356	24463	Officer, parole /probation (professional)/	26361	24600	Hafiz
26356	24463	Organiser, home help	26361	24600	Imam
			26361	24600	Khatib
			26361	24600	Maulana

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26361	24600	Moazzan	26365	24600	Mother superior
26361	24600	Moullim	26365	24600	Prior
26361	24600	Mufti	<b>2641</b>		<b>Authors and related writers</b>
26361	24600	Mullah			
26361	24600	Qari	26411	24510	Author
26362	24601	Bonze	26411	24510	Author, technical
26362	24601	Counsellor	26411	24510	Biographer
26362	24601	Member of religious orders (non-muslim)	26411	24510	Communicator, technical
26362	24601	Minister, religion (clergyman)	26411	24510	Critic (any specialism)
26362	24600	Poojari	26412	24510	Calligrapher
26362	24601	Talapoin	26412	24510	Katib
26363	24602	Theologian	26413	24510	Poet
26364	24600	Archbishop	26414	24510	Dramatist
26364	24603	Bishop (arch-)	26414	24510	Essayist
26364	24603	Chaplain/ Curate/ Missionary	26414	24510	Novelist
26364	24603	Monk (professional)	26414	24510	Writer (certificate/ continuity/ drama/ feature/ handbook/ song lyric/ script/ technical)
26364	24603	Monk( Nun professional)	26415	24510	Writer (public information / publicity)
26364	24600	Monsignor	26416	24511	Editor, books
26364	24603	Pastor	26416	24510	Editor, continuity
26364	24603	Priest	26416	24510	Editor, proofreading
26364	24603	Rabbi	26416	24510	Editor, script
26364	24600	Rector, religion	26417	24511	Copy holder, / Proof Reader
26364	24603	Vicar	26417	24510	Copywriter, technical
26365	24600	Abbess	26417	24510	Writer, documentation
26365	24600	Abbot	26417	24510	Writer, interactive media
26365	24600	Archdeacon	26417	24510	Writer, scenario
26365	24600	Canon	26417	24510	Writer, short story
26365	24600	Deacon	26417	24510	Writer, speech/song

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26418	24510	Indexer	26426	24510	Reporter, fashion
26418	24510	Lyricist	26426	24510	Reporter, news:
26418	24510	Playwright	26426	24510	TV/radio
26418	24510	Writer, creative	26426	24510	Writer, sports
<b>2642</b>		<b>Journalists</b>	<b>2643</b>		<b>Translators, interpreters and other linguists</b>
26421	24510	Assistant, editorial	26431	24440	Etymologist
26421	24510	Columnist	26431	24440	Philologist (any specialism)
26422	24511	Editor/Editor-in-chief (sub-), newspaper/periodical	26432	24441	Translator
26423	24513	Correspondent (newspaper/journal/other )	26433	24442	Interpreter
26424	24513	Journalist (any medium)	26434	24443	Linguist
26424	24513	Writer, news	26434	24443	Phonologist
26425	24510	Blogger	26435	24444	Graphologist
26425	24510	Critic, art	26435	24444	Lexicographer
26425	24510	Editor, city	26435	24444	Lexicologist
26425	24510	Editor, copy	26435	24444	Morphologist
26425	24510	Editor, fashion	26436	24443	Semasiologist
26425	24510	Editor, features	26437	24440	Subtitler
26425	24510	Editor, financial	26438	24440	Writer, dictionary
26425	24510	Editor, foreign	<b>2651</b>		<b>Visual artists</b>
26425	24510	Editor, political	26511	24520	Modeller, sculpture
26425	24510	Editor, press	26512	24521	Artist (graphic/ layout/ paintings/ poster/ creative/ landscape/ commercial/ fashion creation)
26425	24510	Editor, sports	26513	24521	Painter, miniatures/ portrait
26425	24513	Reporter, journalism/media (any subject)	26513	24521	picture restorer
26426	24514	Commentator, (news/sports/ weather/ motion picture)	26514	24523	Caricaturist
26426	24510	Producer, news:	26514	24523	Cartoonist, motion picture
26426	24510	Reporter, crime	26515	24520	Artist, ceramic
			26515	24524	Engraver (creative/ artistic)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26516	24520	Engraver-etcher, artistic	26523	24533	Singer ,opera
26517	24520	Restorer, picture	26523	24533	Singer ,popular music
26518	24520	Sculptor	26523	24532	Sitar player
<b>2652</b>		<b>Musicians, singers and composers</b>	26523	24532	Trumpeter
26521	24530	Arranger	26524	24533	Singer (street/night-club)
26521	24530	Composer, music	26524	24533	vocalist/ Contralto / Baritone
26522	24531	Band leader	26524	24533	Kawal
26522	24531	Bandmaster	26525	24534	Musicologist/ music transcriber/
26522	24531	Choirmaster	26526	24530	Arranger, music
26522	24531	Chorusmaster	26526	24530	Baritone
26522	24531	Conductor (orchestra/ vocal group)	26526	24530	Contralto
26523	24532	Bassoonist	26526	24530	Ethnomusicologist
26523	24532	Bugler	26526	24530	Instrumentalist
26523	24532	Cellist	26526	34730	Leader, band
26523	24532	Clarinetist	26526	34731	Musician (street/ night-club)
26523	24532	Drummer	26526	24530	Musician, instrumental
26523	24532	Guitarist	26526	24530	Orchestrator
26523	24532	Harpist	26526	24532	Saxophonist
26523	24532	Mezzo-soprano	26526	24530	Player, musical instrument
26523	24532	Oboist	26526	45530	<b>Saxophonist</b>
26523	24532	Organist	26527	34730	Singer, nightclub
26523	24532	Percussionist	26527	34730	Singer, street
26523	24532	Pianist	26527	24530	Soprano
26523	24532	Prombonist	26527	24535	Teacher, music (private)
26523	24532	Sarang	26527	24530	Tenor
26523	24533	Singer ,bass	26527	24532	Violinist
26523	24533	Singer ,choir	26527	24530	Transcriber, music
26523	24533	Singer ,concert	26527	24530	Trombonist
26523	24533	Singer ,jazz	26528	24530	Accompanist

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
26528	24530	Tympanist	26548	24550	Editor, video
26528	24530	Bell-ringer	26548	12290	Producer, theatre
26528	24530	Cornetist	26548	12290	Director, artistic
26528	24530	Flautist	26548	12290	Director, casting
<b>2653</b>		<b>Dancers and choreographers</b>	26548	12290	Producer, record
26531	24540	Arranger, ballet	<b>2655</b>		<b>Actors</b>
26532	24540	Choreographer	26551	24551	Actor/actress (any specialism)
26533	24541	Ballerina	26551	24551	Artist (dramatic)
26534	24541	Dancer, (ballet/ ballroom/ folk/ chorus/ night-club/ tap)	26552	24552	Story-teller (any medium)
26534	34730	Dancer, street	26553	24550	Mime, artist
26534	34740	Dancer, strip-tease	<b>2656</b>		<b>Announcers on radio, television and other media</b>
26534	34730	Stripper, nightclub	26561	34720	Announcer, news (radio/Television/sports/ weather)
26535	34740	Artist, strip-tease	26562	34720	Compere
<b>2654</b>		<b>Film, stage and related directors and producers</b>	26562	34720	Interviewer, media
26541	12291	Department -manager, production and operations (stage)	26562	34720	News anchor
26542	24550	Director (dance/ motion picture/ music/ radio/television/ stage/ theatrical)	26562	34720	Sports anchor
26543	24550	Coach, dramatic	26563	34720	Supervisor, announcer
26544	24551	Duplicator (motion picture)	26564	34722	Disc jockey
26545	12295	Impresario	26565	34720	Host, talk show
26545	12295	Impersonator	26565	34720	Hostess, talk show
26546	12296	Producer (motion picture / radio/ stage/ television)	26565	34720	Reporter, traffic
26547	24550	Director, photography	26565	34720	Reporter, weather
26547	24550	Director, technical	<b>2659</b>		<b>Creative and performing artists not classified elsewhere</b>
26548	24550	Editor, film	26591	34740	Acrobat
			26591	34740	Aerialist
			26591	34740	Artist (high-wire/ tight-rope/



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		trapeze )	<b>3112</b>		<b>Civil engineering technicians</b>
26591	34740	Juggler	31121	31120	Civil-engineering technician/ hydrology/ irrigation/ public health
26591	34740	Muddari	31121	31120	Civil-engineering technician (construction/dredging/hydraulics)
26591	34740	Tumbler	31121	31120	Civil-engineering technician (sanitary/soil mechanics/structural)
26592	34741	Clown	31122	31120	Instrument man, surveying
26592	34744	Comic actor	31122	31120	Technician ,civil
26592	34744	Hypnotist	31122	31112	Technician
26592	34744	Imitator	31123	31120	Technician ,research laboratory
26593	34742	Conjuror	31124	31510	Consultant, fire prevention
26593	34742	Illusionist	31124	31120	Overseer (civil)
26593	34742	Magician	31124	31510	Surveyor, building
26593	34742	Prestidigitator	31125	31120	Supervisor, water and sewer system
26594	34743	Tamer/trainer, wild animal	31125	31120	Technician, engineering: civil
26595	34745	Contortionist	31125	31510	Technician, geotechnical
26595	34745	Puppeteer	31126	31121	Estimator, civil-engineering
26596	34740	Comedian	31127	31122	Clerk of works
26596	34740	Comedian, stand-up	31128	31510	Inspector, building
26597	34742	Ventriloquist	31128	31511	Inspector, fire
26597	24550	Impersonator	31128	31512	Specialist, fire prevention
26597	34740	Jockey, disc	<b>3113</b>		<b>Electrical engineering technicians</b>
26597	34740	Trainer, wild animals	31131	31130	Electrical-engineering technician (electric illumination)
<b>3111</b>		<b>Chemical and physical science technicians</b>	31131	31130	Electrical-engineering technician(electric power/high voltage/systems)
31111	31110	Assistant, laboratory (chemical/ educational institutes/medical)			
31112	31112	Technician (geology/geophysics/ meteorology/oceanography)			
31112	31112	Technician(chemistry/physics/astronomy)			
31113	31110	Tester, petroleum refinery			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31132	31130	Technician(power generation and transmission (electricity))	31152	31150	Mechanical-engineering technician (air-conditioning/ heating )
31132	31130	Technician, (electrical laboratory/illumination(electricity))	31152	31150	Mechanical-engineering technician(ventilation /refrigeration)
31133	31131	Estimator, electrical-engineering	31152	31150	Mechanical-engineering(internal combustion/(any specialism))
31133	31525	Tester, battery	31153	31150	Mechanical-engineering(motor/ locomotive engineering / other specialism)
31134	31131	Inspector (chief), electric	31153	31150	Mechanical-engineering(instruments/ jet engine/ lubrication
31135	31522	Inspector, safety and health (electricity)	31153	31150	Mechanical-engineering technician ( automotive/ diesel/ gas turbine)
<b>3114</b>		<b>Electronics engineering technicians</b>	31154	31150	Mechanical-engineering technician ( industrial machinery and tools)
31141	31140	Electronics-engineering technician (any specialism)	31154	31150	Mechanical-engineering technician/agriculture)
31142	31142	Technician, engineering (aerospace)	31155	31151	Technician, laboratory (mechanical) / quality control (mechanical)/ engineering (any specialism)
31143	31143	Estimator, engineering (electronics)	31156	31154	Dock master, dry/graving dock
31144	31525	Inspector and tester, electrical and electronic products	31156	31154	Supervisor, dry dock
31145	31525	Inspector, line (telephone/telegraph)	31156	31153	Surveyor, marine
31146	31525	Tester, electronic systems/ components	31157	31522	Inspector (rail road car/ quality (mechanical products))
31147	31210	Assistant, computer: engineering (hardware)	31158	31150	Technician, engineering: internal combustion
31147	31520	Inspector, quality: electronic products	31158	31150	Technician, engineering: marine
31147	31140	Technician, engineering: computer hardware design	31158	31150	Technician, engineering: mechatronics
31147	31140	Technician, engineering: instrumentation	31158	31150	Technician, engineering: naval
31147	31140	Technician, engineering: semiconductors	31158	31150	Technician, engineering: nuclear power
<b>3115</b>		<b>Mechanical engineering technicians</b>	31158	31150	Technician, engineering: ship (construction)
31151	31150	Estimator, engineering (mechanical)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>3116</b>		<b>Chemical engineering technicians</b>	31177	31172	Shooter, oil and gas wells
			31178	31522	Inspector, mining
31161	31160	Technician, chemical-engineering (petroleum)/ (process)	31178	71110	Sampler, coal
31162	31160	Technician, engineering (natural gas production and distribution)/ (petroleum)	31178	71110	Sampler, mine
31163	31160	Technician, (leather/ paint/ paper/ plastics/ rubber/ wood)	31178	71110	Sampler, ore
31164	31160	Tester, pulp and paper	31178	71110	Sampler, underground
31165	31161	Technician, (agricultural/ production engineering)	31178	71110	Technician, engineering: petroleum and natural gas extraction
31166	31163	Estimator, engineering (chemical)	31178	71110	Tester, hardness
<b>3117</b>		<b>Mining and metallurgical technicians</b>	31178	31170	Treater, well acidising
			<b>3118</b>		<b>Draughts persons</b>
31171	71114	Sampler (mine/ quarry)	31181	31180	Draughts person-engineering (mechanical-marine/ aeronautical/ civil)
31171	31170	Technician, (mining-engineering (any specialism))	31181	31522	<b>Draughtsman</b> , mechanical (all kinds)
31171	31170	Technician, metallurgy (any specialism)	31181	31180	Draughts person-engineering (architectural/cartographical/die/ electrical/electronic)
31172	31170	Tester (metallurgical / mining and quarrying/ oil well)	31182	31180	Draughts person (geological/ lithographic/technical)
31173	31171	Assistant, laboratory (metallurgical)	31182	31180	Draughts person (industry/motors and engines except marine/other)
31173	31171	Attendant, core house	31182	31180	Draughts person ,automotive/ heating/Topographical
31174	31520	Inspector, coal	31183	31181	Illustrator (engineering/geological/technical)
31174	31171	Inspector, oil pipe	31183	31180	Lithographer
31174	31520	Inspector, safety: mines	31183	31180	Tracer
31175	31171	Operator, testing (oil well tester)	31184	31180	Draughts person, CAD
31176	31172	Treater (gas (natural gas)/ well acidizing)	31185	31180	Draughts person, civil
31177	31172	Acidiser,oil and gas well	31186	31180	Draughts person, jig and tool
31177	31172	Cementer, oil and gas well			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31187	31180	Draughtsperson, structural	31215	71110	Examiner, open cut: mining
31188	31180	Draughts person, topographical	31215	71110	Manager, under: mine
<b>3119</b>		<b>Physical and engineering science technicians not elsewhere classified</b>	31215	71110	Officer, mining technical
			31215	71110	Over man, mine
			31215	71110	Overseer, mine
31191	31190	Technician, engineering (industrial efficiency/methods)	31216	71110	Supervisor, mine
31191	31190	Technician, engineering(planning/ systems (except computers)	31216	71110	Supervisor, production: mining
			31216	71110	Supervisor, quarry
31192	31190	Technician, engineering (time and motion study/work study/ <b>industrial</b>	31216	71110	Supervisor, shift: mining
			31216	71110	Supervisor, underground: mine
31192	31193	Technician, engineering(safety)	31216	71110	Under-manager, mine
31192	31191	Technician, engineering(industrial layout)	<b>3122</b>		<b>Manufacturing supervisors</b>
31192	31192	Technician, engineering(production)	31221	82630	Supervisor (sewing machine)
31192	31194	Technician, engineering(value)	31221	81710	Supervisor, packaging
31193	31195	Technician, quantity surveying	31221	81710	Supervisor, fun laboratory
31194	31513	Fire investigator	31222	81710	Supervisor, pharmaceutical (manufacturing)
31195	31190	Technician, forensic science	31222	81710	Supervisor, dairy products (manufacturing)
31195	31230	Technician, robotics	31222	81710	Supervisor, mill(manufacturing)
<b>3121</b>		<b>Mining supervisors</b>	31222	81710	Supervisor, paint and varnish(manufacturing)
31211	71110	Mine supervisor	31222	81710	Supervisor, filtration(manufacturing)
31212	71110	Mine under-manager	31222	81710	Supervisor, melt house(manufacturing)
31213	71110	Quarry supervisor	31222	81710	Supervisor, pulp house (manufacturing)
31215	71110	Boss, shift: mining	31222	81710	Supervisor, brewing(manufacturing)
31215	71110	Coordinator, production: mining	31222	81710	Supervisor, refining (manufacturing)
31215	71110	Coordinator, shift: mining	31222	81710	Supervisor, drying machine(manufacturing)
31215	71110	Deputy, mine			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31222	81710	Supervisor, spinning (textile) (manufacturing)	31225	12221	Supervisor and general foreman (clothing manufacturing)
31222	81710	Supervisor, winding and twisting(manufacturing)	31225	12221	Supervisor and general foreman (electrical equipment manufacturing, installation and epairing)
31222	81710	Supervisor, perfumes(manufacturing )			
31222	81710	Supervisor ,film	31225	12221	Supervisor and general foreman (electronic equipment manufacturing and repairing)
31223	81710	Supervisor, rubber (goods/ reclamation) plastic products/paper products	31225	12221	Supervisor and general foreman (fabrication of products of paper, plastic etc.)
31224	82800	Supervisor, assembly	31225	12221	Supervisor and general foreman (fell mongering)
31224	82800	Mufacturng supervisor any specialism			
31224	82820	Mufacturing/Supervisor, assembly: electrical products	31225	12221	Supervisor and general foreman (glass and ceramics manufacturing)
31224	82900	Coordinator, area: manufacturing	31225	12221	Supervisor and general foreman (manufacturing of machinery and metal products)
31224	82830	Supervisor, assembly: electronic products	31225	12221	Supervisor and general foreman (welding)
31224	82810	Supervisor, assembly: mechanical products			
31224	82840	Supervisor, assembly: metal products	31225	82310	Supervisor, rubber (goods/ reclamation)/ plastic products/ paper products
31224	82860	Supervisor, assembly: paperboard products	31225	81710	Manufacturing supervisors (any specialism)
31224	82840	Supervisor, assembly: plastic products	31225	81710	Other production supervisor
31224	82840	Supervisor, assembly: rubber products			
31224	82860	Supervisor, assembly: textile products	<b>3123</b>		<b>Construction supervisors</b>
31224	82850	Supervisor, assembly: wood products	31231	12230	Supervisor and general foreman (building and construction work)
31224	81710	Supervisor, automated assembly line	31232	12230	Site manager (construction)
31224	82900	Supervisor, finishing	31233	12230	Coordinator, building: construction
31225	12221	Supervisor and general foreman (general)	31233	12230	Coordinator, construction site
31225	12221	Supervisor and general foreman (beverage making)	31233	12230	Coordinator, site: building

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31233	12230	Coordinator, site: construction	31318	81610	Operator, reactor: nuclear-power
31233	12230	Manager, building site	31318	81610	Operator generator: electric power
31233	12230	Superintendent, construction	31318	81610	Operator rectifier: electric current/steam power plant
31233	71290	Supervisor, building operations	3132		Incinerator and water treatment plant operators
31233	71290	Supervisor, building project			
3131		Power production plant operators	31321	81630	Exhauster (assistant)
31311	81610	Operator, (chief), turbine (electricity generation)	31321	81630	Operator, control-panel: incinerator
31311	81610	Operator, electric power plant	31321	81630	Operator, control-panel: water treatment
			31321	81630	Operator, desilting basin
31311	81611	Operator, rectifier (electric current)	31321	81630	Operator, filter: water
31312	81610	Operator, gas plant (electric power generation)	31321	81630	Operator, furnace: refuse disposal
31312	81610	Operator, natural gas plant (electric power generating)	31321	81630	Operator, liquid waste process
31313	81610	Operator, generator (electric power (hydroelectric))	31321	81630	Operator, refrigeration system
31313	81610	Operator, generator electric power (steam)	31321	81630	Operator, reservoir: water
			31321	81630	Operator, wastewater
31314	81611	Dispatcher, load (electrical power station)	31321	81630	Operator, water treatment plant
31315	81611	Operator, switchboard (electrical power station)	31322	81630	Operator (gas engine/ hydraulic station/ pumping-station (water)
31316	81612	Operator, geo-thermal/ solar (power plant)	31322	81630	Operator( Incinerator (refuse disposal)/ sewage plant)
31317	81612	Operator, nuclear power plant	31322	81630	Operator(stationary engine/ desilting basin
31318	81612	Operator (wind-energy plant (electric power generating))	31323	81630	Operator, tube well
31318	81612	Operator( tidal power plant)	31323	81630	Pump man (water)
31318	81610	Operator, distribution control	31324	81631	Operator (purification plant (water)
31318	81610	Operator, generating station	31324	81631	Operator (compressor (air)/ (gas))
31318	81610	Operator, hydroelectric power plant	31325	81633	Furnace-operator, refuse disposal
			31326	81634	Foreman, refrigeration (water treatment)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31327	81634	Machine-operator, ice production	31334	81530	Operator( screener /separator/ sifting equipment (chemical and related processes)
31328	81634	Operator( heating plant/ventilation equipment)	31335	81530	Foreman, purification/chemical
31328	81630	Operator, freezer	31335	81530	Operator ((filter bag/ rotary drier/ vacuum drier) (chemical)
31328	81634	Operator, (water treatment / reservoir (water)	31335	81531	Operator ,Foreman, purification (chemical)
31329	81637	Tender, water dam	31335	81531	Operator(absorption/ centrifuge/ extractor/ expeller(chemical)
<b>3133</b>		<b>Chemical processing plant controllers</b>	31335	81531	Operator, purification/ filtration (chemical))/ centrifuge (paint and varnish)
31331	81520	Attendant, mechanical stirrer and steam jacketed pan (chemical heat treating)	31336	81532	Strainer, chemical and related materials
31331	81520	Boiler man (chemical heat treating)	31336	81532	Treater, crude oil (oil field)/ Expeller (chemical and related materials)
31331	81520	Fireman, chemical and related processes	31336	81532	Washer, chemical and related materials
31331	81520	Potman, chemical and related processes	31337	81540	Converter/ vacuum pan
31331	81520	Tubman, chemical and related processes	31337	81540	Distiller (continuous (chemical processes (except petroleum and natural gas))
31331	81520	Vatman ,chemical and related processes	31337	81540	Distiller (turpentine)
31332	81520	Operator (autoclave/ burner/ calciner/ drier	31337	81540	Evaporator
31332	81520	Operator(/ cooking equipment/ roasting equipment	31337	81540	Operator ((distillation (wood)
31332	81520	Operator(/retort /oven/ heat-treating-plant (chemical and related processes)	31337	81540	Operator Reactor/convertor
31332	81520	Operator(cement production plant)	31338	81541	Distiller (still (alcohol, perfume or turpentine)
31333	81520	Kiln/ Furnace ((- operator) (cement (production/ manufacturing)	31338	81520	Operator, chemical and related processing plant
31333	81520	Kiln/ Furnace(electrode baking/ chemical and related processes)	31338	81530	Operator, chemical filtering and separating equipment
31334	81530	Operator (filter/ filter-press/ centrifugal separator(chemical and related processes)	31338	81540	Operator, chemical still and reactor
			31338	81590	Operator, control-panel: chemical plant



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31338	81630	Operator, cooling plant	31341	81550	Treater (assistant), petroleum refining
31338	81630	Operator, filter: chemical and related processes	31342	81550	Foreman (natural gas plant/tower/treating and pumping) (petroleum refining)
31338	81520	Operator, heat treating plant: chemical	31343	81550	Gauger
31338	81630	Operator, machine: ice production	31344	81551	Operator(blender/distiller /
31338	81540	Operator, reactor: chemical			Compounder(petroleum and natural gas refining)
31338	81540	Operator, still: batch (chemical processes except petroleum and natural gas)	31344	81550	Operator, control-panel: coal gas production
31338	81540	Operator, still: chemical	31344	81550	Operator, control-panel: petroleum and natural gas refinery
31338	81540	Operator, still: continuous (chemical processes except petroleum and natural gas)	31344	81550	Operator, evaporator: petroleum and natural gas
31338	81590	Operator, synthetic-fibre production plant	31344	81550	Operator, gas plant
31338	81541	Operator/(still (alcohol, perfume or turpentine	31344	81550	Operator, petroleum process
31338	31160	Technician, chemical process/ Technician, hot cell	31344	81550	Operator, pumping-station: petroleum and natural gas
31339	81590	Kiln-operator, charcoal production/ coke (retort kiln)	31344	81550	Operator, refinery: petroleum and natural gas
31339	81593	Operator (treater (radioactive waste)	31344	81550	Operator, still: petroleum and natural gas refining
31339	81595	Operator ,fish fertilizer/ liquefaction plant (gases)	31344	81550	Operator, still-pump: petroleum and natural gas refining
31339	81594	Operator(chemical processing plant (electric cells/radioactive materials)	31344	81550	Operator, treater: desulphurization (petroleum and natural gas refining)
<b>3134</b>		<b>Petroleum and natural gas refining plant operators</b>	31344	81550	Operator, treater: petroleum and natural gas refining
31341	81550	Blender (lead/ oil (petroleum refining)	31344	81550	Operator, treating equipment: crude oil
31341	81550	Burner, petroleum refining	31344	81550	Technician, process control: coal gas production
31341	81550	Fireman (petroleum refining)	31344	81550	Technician, refinery process
31341	81550	Pumper, petroleum refining	31345	81551	Dispatcher, natural gas

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31345	81551	Gasman, natural gas	31355	81210	Operator, pot line: aluminium
31345	81551	Pumper (Petroleum refining)	31355	81210	Operator, smelter
31346	81552	Leak man (paraffin plant)	<b>3139</b>		<b>Process control technicians not elsewhere classified</b>
31346	81552	Operator (paraffin plant)			
31346	81552	Pressman (paraffin plant)	31391	31230	Controller, robot
<b>3135</b>		<b>Metal production process controllers</b>	31391	31230	Technician, robot
31351	81220	Blast furnace operator	31392	81710	Machine-operator, assembly line (automated)
31352	81210	Central control caster	31392	81710	Operator, assembly line (automated)
31353	81210	Metal processing control operator	31393	81720	Industrial robot controller
31354	81210	Rolling mill control operator	31394	31230	Controller, robot: industrial
31355	81210	Operator, control-panel: blast furnace	31394	81430	Operator, control-panel: paper-making
31355	81210	Operator, control-panel: metal production	31394	81420	Operator, control-panel: pulp production
31355	81210	Operator, control-panel: smelting	31394	81420	Operator, panel board: pulp and paper
31355	81210	Operator, furnace: converting (non-ferrous metal)	31394	81430	Operator, panelboard: paper-making
31355	81210	Operator, furnace: converting (steel)	31394	81420	Operator, pulping control
31355	81220	Operator, furnace: melting (metal)	31394	81420	Operator, refinery: paper pulp
31355	81210	Operator, furnace: metal smelting (blast furnace)	31394	81720	Operator, robot: industrial
31355	81210	Operator, furnace: refining (non-ferrous metal)	31394	81590	Operator, treater: radioactive waste
31355	81210	Operator, furnace: refining (steel)	31394	81420	Technician, pulping
31355	81210	Operator, furnace: smelting (metal)	<b>3141</b>		<b>Life science technicians (excluding medical)</b>
31355	81210	Operator, furnace: steel refining (electric-arc furnace)	31411	32110	Technician ( histology/ botany)
31355	81210	Operator, furnace: steel refining (open-hearth furnace)	31412	32111	Technician (bacteriology/serology/ cytology /media preparation)
31355	81210	Operator, pot room: aluminium	31412	32111	Technician(Cultureman, dairy)
31355	81210	Operator, pot: aluminium	31413	32111	Technician (biophysics/ biology)



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31413	32111	Technician( ecology)	31425	32120	Technician, olericulture
31413	32111	Technician(zoology/biochemistry/ genetics)	31425	32120	Technician, pomology
31414	32110	Technician( physiology )	31425	32130	Technician, poultry
31414	32110	Technician, herbarium	<b>3143</b>		<b>Forestry technicians</b>
31414	32110	Technician, life science	31431	32121	Technician ( silviculture/ forestry)
31414	32110	Technician, physiology	31432	32120	Forest , assistant
31414	32110	Technician, plant breeding	31433	32120	Technician, forest survey
31414	32110	Technician, tissue culture	31433	32120	Technologist, forestry
31414	32110	Technician, wildlife	<b>3151</b>		<b>Ships' engineers</b>
<b>3142</b>		<b>Agricultural technicians</b>	31511	31410	Chief engineer, ship
31421	32130	Demonstrator, farm	31512	31410	Engineer, ship (any rank)
31421	32120	<b>Technicians</b> horticulture/ floriculture/ pomology/ arboriculture/soil science)	31513	31410	Superintendent (marine/technical)
31421	32120	Technician (agronomy/crop research/ olericulture )	<b>3152</b>		<b>Ships' deck officers and pilots</b>
31421	32120	Technician , pomology/ arboriculture	31521	31420	Captain
31421	32120	Technician(horticulture/ floriculture/	31521	31420	Captain((passenger) barge/ ferry boat/ fishing vessel)
31422	32130	Tester, herd	31521	31420	Captain(river boat/ ship (inland waterways/sea)/ tugboat/ port)
31422	32120	Tester, soil	31521	31425	Yacht master
31423	22130	Assistant , agriculture	31522	31420	Officer, ship (deck)/ (navigation)
31423	22130	Field assistant, agriculture	31523	31421	Master, yacht
31424	32130	Officer, technical: field crop	31523	31421	Mate, tugboat
31424	32130	Officer, technical: horticulture	31523	31421	Quartermaster (ship)
31424	32130	Officer, technical: poultry	31523	31421	Skipper) yacht
31425	32130	Technician, aquaculture	31523	31421	Superintendent, (marine/deck)
31425	32120	Technician, crop research	31524	31423	Pilot, hovercraft/ ship
31425	32130	Technician, dairy	31525	31420	Master, ship: inland waterways
31425	32130	Technician, field crop	31525	31420	Master, ship: sea

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
31526	31420	Mate, chief: ship	31552	32260	Engineer, air traffic safety
31526	31420	Mate, first	<b>3211</b>		<b>Medical imaging and therapeutic equipment technicians</b>
31526	31420	Mate, second			
31526	31420	Mate, ship			
31526	31420	Mate, third	32111	31332	Technologist (medical/chief radiologic)
31527	31420	Navigator, ship	32112	31332	Technician (audiometric/medical (X-ray))
<b>3153</b>		<b>Aircraft pilots and related associate professionals</b>	32112	31333	Technician( electrocardiograph/ electroencephalograph)
31531	31430	Captain (junior), aircraft	32113	31332	Operator (audiometric equipment/ medical radiography equipment (X ray/scan))
31532	31430	Captain, aircraft	32113	31332	Operator(/ electrocardiograph equipment/ scanning equipment (optical))
31533	31431	Pilot (aircraft/helicopter/ test)	32113	31332	Operator(optical scanner / electroencephalograph equipment)
31534	31432	Engineer/ Navigator(flight)			Radiographer
31535	31433	Balloonist	32114	31332	Mammo grapher
31536	33400	Instructor, flying	32115	31330	Operator, audiometric equipment
31536	33400	Pilot, check	32116	31330	Operator, medical ultrasound
31537	31430	Astronaut	32116	31330	Ultrasonographer
31537	31430	Sprayer, crop: aerial	32117	31330	Sonographer
31538	31430	Pilot, seaplane	32118	31330	Technician, medical radiography equipment
<b>3154</b>		<b>Air traffic controllers</b>	32118	31330	Technician, MRI
31541	31440	Controller, air traffic	32118	31330	Technician, nuclear medicine
31541	31440	Coordinator) air traffic	32118	31330	Technician, polysomnography
31542	31440	Manager, operation flight control	32118	31330	Technician, radiation therapy
31543	31440	Officer, aerodrome	32118	31330	Technician, scanning equipment: medical
31544	31440	Signaller, air traffic			
31545	31441	Operator, air-traffic control equipment			
<b>3155</b>		<b>Air traffic safety electronics technicians</b>			
31551	31450	Technician, air traffic safety			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
32118	31330	Technologist, cat- scan	32135	32280	Assistant, pharmacy: dispensing
32118	31330	Technologist, computer aided tomography	32136	32280	Technician, dispensing
32118	31330	Technologist, ct scan	32136	32280	Technician, pharmacy
32118	31330	Technologist, magnetic resonance imaging	<b>3214</b>		<b>Medical and dental prosthetic technicians</b>
32118	31330	Technologist, medical imaging			
32118	31330	Technologist, MRI	32141	73110	Dental Technician
32118	31330	Technologist, neurodiagnostic	32142	32260	Fitter, artificial limb
32118	31330	Technologist, nuclear medicine	32142	32260	Fitter, prosthesis
32118	31330	Technologist, polysomnography	32142	73110	Maker, dentures
32118	31330	Technologist, radiation therapy	32143	73110	Maker (artificial limb/ brace (orthopaedic)
32118	31330	Therapist, medical radiation	32143	73110	Maker ,dental prosthesis/ orthopaedic appliance)
32118	31330	Therapist, nuclear medicine	32143	32262	Technician (orthopedic/prosthetic)
<b>3212</b>		<b>Medical and pathology laboratory technicians</b>	32144	73110	Mechanic, dental
32121	32110	Technician (medical laboratory)/ genetics	32145	73110	Hearing aid Technician
32122	32112	Technician ,haematology	32146	73113	Repairer (dental prosthesis/ instrument (dental)/ orthopaedic appliance)
32122	32110	Technician, pathology/ hispatology/	32147	73110	Denturist
32122	32110	Technician, (pharmacology /tissue)	32147	73110	Ortho tist
32122	32112	Technician(blood-bank/ anatomy)	32147	73110	Prosthetist
32123	32112	Officer, blood transfusion	32147	73110	Prosthetist, dental
<b>3213</b>		<b>Pharmaceutical technicians and assistants</b>	32147	73110	Technician, orthotic
32131	32280	Assistant, pharmaceutical	<b>3221</b>		<b>Nursing associate professionals</b>
32132	32280	Compounder, pharmaceutical	32211	32310	Sister, nursing, associate professional
32133	32280	Dispenser, pharmaceutical	32212	32311	Nurse (associate professional), any specialism
32134	32280	Technician, pharmaceutical	32213	32311	Dresser, , hospital ward boy, hospital
			32213	32311	

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
32214	32311	Attendant, mental hospital	32403	32271	Vaccinator (veterinary/poultry)
32215	32310	Nurse, assistant	32404	32271	Compounder, veterinary
32215	32310	Nurse, enrolled	32404	32271	Dresser, veterinary
32215	32310	Nurse, practical	32405	32271	Inseminator/Technician, artificial insemination
<b>3222</b>		<b>Midwifery associate professionals</b>	32406	32270	Nurse, veterinary
32221	32320	Midwife (associate professional)	32407	32270	Technician, veterinary
32222	22300	Dai	<b>3251</b>		<b>Dental assistants and therapists</b>
32222	32321	Midwife (auxiliary)	32511	32250	Assistant, hygienist (dental/oral)
32223	32320	Midwife, assistant	32511	32250	Auxiliary, hygienist (dental/oral)
32223	32320	Midwife, lay	32511	32250	Technician/hygienist (dental/oral)
32223	32320	Midwife, traditional	32512	32252	Dentist unregistered
<b>3230</b>		<b>Traditional and complementary medicine associate professionals</b>	32512	32252	Prophylactician
32301	32410	Healer (drugless treatment/ herbal/village)	32513	32250	Assistant, dental: school service
32301	32410	Bonesetter	32514	32250	Hygienist, dental
32302	32410	Doctor, witch	32514	32250	Hygienist, oral
32303	32410	Herbalist/Setter, Bone	32515	32250	Therapist, dental
32304	32410	Technician, acupuncture	<b>3252</b>		<b>Medical records and health information technicians</b>
32304	32410	Technician, ayurvedic	32521	41430	Clinical coder
32304	32410	Technician, homeopathy	32522	41430	Medical record clerk
32305	32410	Therapist, scraping and cupping	32523	41430	Health information clerk
32306	32410	Reflexologist	32524	41430	Analyst, medical records
			32524	41430	Clerk, coding: clinical
<b>3240</b>		<b>Veterinary technicians and assistants</b>	32525	41430	Manager, information: health
32401	32270	Assistant (livestock/veterinary)	32525	41430	Manager, records: health
32402	32270	Assistant veterinary (research/ artificial insemination)	32525	41430	Supervisor, medical records unit
			32526	41430	Technician, disease registry

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994			2015	1994	
32526	41430	Technician, health information		32556	32260	Masseur
32526	41430	Technician, medical records		32556	32260	Masseuse
<b>3253</b>		<b>Community health workers</b>		32556	32260	Technician, hydrotherapy
32531	32210	Community health aide		32556	32260	Technician, physical rehabilitation
32532	32210	Community health promoter		32556	32260	Technician, physiotherapy
32533	32210	Community health worker		32556	32260	Therapist, acupressure
32534	32210	Village health worker		32557	32260	Therapist, hydrotherapy
32534	32210	Lady Health Visitor(LHV)		32557	32260	Therapist, shiatsu
32534	32210	Lady Health Worker(LHW)		<b>3256</b>		<b>Medical assistants</b>
32535	32210	Assistant, medical: family planning		32561	32210	Assistant (health/medical/occupational therapy)
32536	32210	Promoter, community health		32562	32212	Microscopist
<b>3254</b>		<b>Dispensing opticians</b>		32562	32212	Vaccinator
32541	32240	Dispenser, optical		32563	32214	Superintendent (vaccination/ sanitary)
32541	32240	Optician, dispensing		32564	32210	Assistant, clinical/medical helping Doctor
32542	32240	Optician, contact lens		32564	32210	Assistant, doctor's
<b>3255</b>		<b>Physiotherapy technicians and assistants</b>		32564	32210	Assistant, ophthalmic
32551	32260	Electrotherapist		<b>3257</b>		<b>Environmental and occupational health inspectors and associates</b>
32552	32260	Hydro therapist				
32553	41430	Massage therapist		32571	32220	Inspector (sanitary/ public health)
32554	32260	Aide, therapist: physiotherapy		32572	32220	Sanitarian
32554	32260	Aide, therapy: physiotherapy		32573	31520	Sanitary patrol
32555	32260	Assistant, allied health: physiotherapy		32574	31520	Inspector (anti malaria/ drug/ safety and health (child care)/complaint control
32555	32260	Assistant, hydrotherapy		32575	31520	Inspector, pollution
32555	32260	Assistant, physiotherapy		32575	31520	Inspector, product safety
32555	32260	Assistant, technical: physiotherapy		32575	31520	Inspector Meat
32555	32260	Assistant, therapy: physiotherapy				

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
32575	31520	Inspector, safety and health: consumer (protection)	32597	32290	Counsellor, HIV
32575	31520	Inspector, safety and health: establishments	32598	32290	Technician, anaesthesia
32575	31520	Inspector, safety and health: factories	32598	32290	Technician, respiratory therapy
32575	31520	Inspector, safety and health: industrial (waste-processing)	32598	32290	Assistant, speech therapy
32575	31520	Inspector, safety and health: labour	<b>3311</b>		<b>Securities and finance dealers and brokers</b>
32575	31520	Inspector, safety and health: pollution	33111	34110	Broker (foreign exchange/ investment/ securities/stocks and shares)
32575	31520	Inspector, safety and health: shops	33111	34110	Broker, finance
32575	31520	Inspector, safety and health: working conditions	33111	34110	Broker, futures: financial
<b>3258</b>		<b>Ambulance workers</b>	33111	34110	Broker, lease
32581	51321	Attendant ambulance	33111	34110	Broker, mortgage
32581	51320	Officer, ambulance	33112	34111	Jobber, stock
32581	51320	Paramedic, ambulance	33113	34111	Salesperson (bond/securities)
32581	51320	Technician, emergency medical	33114	34110	Dealer, bond
32581	51320	Worker, ambulance	33114	34110	Dealer, foreign exchange
32581	51320	Ambulanceman/woman	33114	34110	Dealer, futures: financial
32582	51320	Emergency medical technician	33114	34110	Dealer, investment
32583	51320	Emergency paramedic	33114	34110	Dealer, securities
<b>3259</b>		<b>Health associate professionals not elsewhere classified</b>	33115	34110	Trader, bond
32591	51320	Fitter (artificial limb)	33115	34110	Trader, financial
32592	32262	Supervisor (orthopedic workshop)	33115	34110	Trader, foreign exchange
32594	32260	Osteopath, lay/chiropractor	33115	34110	Trader, futures: financial
32595	32260	Malshiya/masseur	33115	34110	Trader, stock
32597	32290	Counsellor, AIDS	33115	34110	Underwriter, investments
32597	32290	Counsellor, family planning	33116	34110	Trader, derivatives
			<b>3312</b>		<b>Credit and loans officers</b>

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
33121	34190	Loan officer	33127	34190	Supervisor, credit: assessing credit or finance
33122	34190	Mortgage officer	33127	34190	Underwriter, loans
33123	34190	Credit officer	33127	34190	Underwriter, mortgages
33124	34190	Analyst, credit: assessing credit or loans	33128	34190	Writer, loan
33124	34190	Analyst, financial: assessing credit worthiness of clients	33128	34190	Writer, mortgage
33124	34190	Analyst, loans	<b>3313</b>		<b>Accounting associate professionals</b>
33124	34190	Analyst, risk: assessing credit worthiness of clients	33131	34330	Bookkeeper (ledger/accounts payable (or receivable))
33125	34190	Assessor, credit	33132	34342	Assistant, accounting
33125	34190	Assessor, loans	33133	34340	Auditor, night: hotel
33125	34190	Clerk, finance: approving or assessing credit or loans	<b>3314</b>		<b>Statistical, mathematical and related associate professionals</b>
33125	34190	Clerk, finance: processing credit applications or loans	33141	34340	Technician (mathematical/statistical)
33126	34190	Controller, credit: assessing credit worthiness of clients	33142	34341	Assistant (statistical/mathematical/actuarial)
33126	34190	Officer, acceptance: financial institution	33143	34343	Weight analyst (aircraft manufacturing)
33126	34190	Officer, bank lending	<b>3315</b>		<b>Valuers and loss assessors</b>
33126	34190	Officer, bank: loans or lending	33151	34170	Adjuster, claims (insurance)
33126	34190	Officer, credit: bank, building society or credit union	33151	34170	Assessor, claims (insurance)
33126	34190	Officer, finance: approving, assessing or processing loans	33151	34170	Inspector, claims (insurance)
33126	34190	Officer, home loans	33152	34170	Appraiser
33126	34190	Officer, lending services: bank, building society or credit union	33152	34170	Valuer
33126	34190	Officer, securities: loans or lending	33153	34170	Appraiser, real estate
33126	34190	Officer, settlements: loans or financial settlements	33153	34170	Examiner, claims
33127	34190	Processor, loans	33153	34170	Representative, insurance: assessor



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
33153	34170	Representative, insurance: claims	33232	34160	Buyer (merchandise (retail/ wholesale trade)/supplies)
<b>3321</b>		<b>Insurance representatives</b>	33233	34160	Purchaser (merchandise (retail/ wholesale trade)/tobacco leaf)
33211	34120	Agent (group insurance/insurance)	33234	34160	Merchandiser, buying
33212	34120	Broker, insurance	33234	34160	Merchandiser, purchasing
33212	34120	Underwriter) insurance	33235	34160	Officer, procurement
33213	34120	Dealer, insurance	33235	34160	Officer, purchasing
33214	34120	Representative, insurance: sales	33235	34160	Officer, supply
33214	34120	Representative, sales: insurance	<b>3324</b>		<b>Trade brokers</b>
<b>3322</b>		<b>Commercial sales representatives</b>	33241	34210	Broker( commodity/grain)
33221	34150	Agent	33241	34210	Broker(livestock/trade/cars/ shipping)
33221	34150	Representative ( sales)/commercial	33241	34210	Broker, futures: commodities
33221	34151	Traveller, commercial	33242	34210	Dealer, commodities
33222	34151	Canvasser	33242	34210	Dealer, commodity futures
33222	34151	Salesperson ,commercial/travelling	33242	34210	Dealer, futures: commodities
33222	34151	Salesperson, manufacturing	33242	34210	Dealer, livestock
33223	34152	Adviser (after-sales service/technical service)	33242	34210	Dealer, textiles
33224	34150	Consultant, sales: manufacturing	33243	34210	Shipbroker
33224	34150	Executive, account: sales (except ICT, industrial, medical and pharmaceutical products)	33244	34210	Trader, commodities
33224	34150	Manager, account: sales (except ICT, industrial, medical and pharmaceutical products)	33244	34210	Trader, futures: commodities
33225	34150	Representative, sales: manufacturing	<b>3331</b>		<b>Clearing and forwarding agents</b>
<b>3323</b>		<b>Buyers</b>	33311	34220	Agent (clearing/shipping)
33231	34160	Agent (procurement/purchasing)	33312	34221	Zileadar
			33313	34220	Broker, cargo
			33314	34220	Broker, customs
			<b>3332</b>		<b>Conference and event planners</b>
			33321	34390	Conference and event organizer



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
33322	34390	Conference planner	33342	34130	Manager, property
33323	34390	Wedding planner	33342	34130	Realtor
33324	34390	Administrator, conference	33343	34130	Salesperson (property/real-estate)
33324	34390	Consultant, events management	33344	34130	Agent, rental: apartment
33324	34390	Coordinator, conference	33344	34130	Agent, rental: housing
33324	34390	Coordinator, events	<b>3339</b>		<b>Business services agents not elsewhere classified</b>
33324	34390	Coordinator, function			
33324	34390	Coordinator, wedding	33391	34171	Agent, commission (commodity auctions)
33325	34390	Manager, account: organizing conferences or events	33392	34290	Agent(literary/musical performance/sports/theatrical)
33325	34390	Manager, events	33393	34291	Promoter,sports/(Representative /Salesperson) business services (advertising)
33325	34390	Manager, functions			
33325	34390	Manager, reception: weddings	33394	24190	Agent, patent
33326	34390	Officer, activities: organising conferences or events	33395	13140	Dealer, art
33326	34390	Organizer, conference and event	33396	34140	Operator, tour
33326	34390	Organizer, exhibition	33397	34290	Salesperson, advertising
33326	34390	Organizer, function	33397	34290	Salesperson, business services
33327	34390	Producer, conference	<b>3341</b>		<b>Office supervisors</b>
33327	34390	Producer, events	33411	41331	Supervisor, air transport service
<b>3333</b>		<b>Employment agents and contractors</b>	33412	41331	Supervisor, telecommunications services
33331	34230	Agent, employment	33412	12342	Supervisor, correspondence section
33331	34230	Contractor, labour	33413	41332	Supervisor, goods (railway)
33331	34232	Youth employment officer	33413	41332	Yardmaster, goods (railway)
33332	34232	Officer (job placement/youth employment)	33414	41331	Supervisor, road transport service
<b>3334</b>		<b>Real estate agents and property managers</b>	33415	41335	Officer, flight operation
33341	34130	Agent (estate/house/property)	33416	42220	Planner, contact centre workforce
			33416	42220	Planner, call centre workforce

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
33416	41120	Officer, documentation worker	33423	34310	Assistant, legal: secretarial tasks
33417	42220	Supervisor, call centre	33424	34310	Manager, legal practice
33417	34390	Supervisor, clerical	33425	34310	Paralegal, secretarial tasks
33417	41130	Supervisor, data entry	33426	41150	Secretary, conveyancing
33417	41410	Supervisor, filing clerks	33426	41150	Secretary, litigation
33417	41900	Supervisor, personnel clerks	33426	41150	Secretary, paralegal
33417	42220	Supervisor, switchboard	33427	41150	Stenographer, legal
33417	41110	Supervisor, typist	<b>3343</b>		<b>Administrative and executive secretaries</b>
33417	41120	Supervisor, word processing	33431	34310	Secretary, administrative (any type)
33417	41420	Supervisor, postal services	33432	34310	Superintendent, administrative (any type)
33418	42230	Supervisor, telegraph /telephone exchange	33433	34311	Reporter (administrative (court/verbatim)/ shorthand (verbatim))
33418	34390	Administrator, office	33434	34312	Assistant, correspondence
33418	41110	Controller, typist	33434	34312	Clerk, correspondence and reporting
33418	34390	Coordinator, administration: office or management	33435	41150	Personal assistant
33418	42220	Manager, call centre team	33436	34392	Executive secretary (committee /
33418	42220	Manager, front office: hospital or school	33436	34390	Secretary, executive (consular office)
33418	34390	Manager, office	33436	34393	Executive secretary, government administration /
33418	42220	Leader, team: contact centre	33436	34394	Executive secretary, non-government administration)
33418	42220	Supervisor, contact centre	33436	34390	Secretary Consul
33418	42220	Manager, front office, hospital or school	33436	34391	Official, (consular )
33419	41120	Other Office supervisor, n.e c.	33436	34391	Courier, diplomatic
<b>3342</b>		<b>Legal secretaries</b>	33437	34310	Assistant, administrative
33421	34310	Legal secretary	33437	34310	Assistant, executive/personal
33422	34310	Legal practice manager	<b>3344</b>		<b>Medical secretaries</b>
33423	34310	Assistant, administrative: legal			
33423	34310	Assistant, executive: legal			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
33441	34310	Medical practice manager	33521	34420	Assistant(tax)
33442	41150	Assistant, administrative: doctors surgery	33521	34420	Superintendent, (tax)
33442	41150	Assistant, administrative: medical office	33522	34420	Inspector (excise and taxation/income tax)
33442	41150	Assistant, secretarial: doctors surgery	33523	34420	Collector, tax
33442	41150	Assistant, secretarial: medical	33524	34420	Examiner, tax
33443	34310	Hospital ward secretary	33525	34420	Officer, excise
33443	41150	Secretary, dental	33526	34420	Officer, tax
33443	41150	Secretary, doctor's	<b>3353</b>		<b>Government social benefits officials</b>
33443	41150	Secretary, hospital ward	33531	34430	Inspector, pensions
33443	41150	Secretary, medical	33532	34431	Officer (pensions/social benefits/social security claims)
33443	41150	Secretary, medical insurance billing	<b>3354</b>		<b>Government licensing officials</b>
33443	41150	Secretary, medical laboratory	33541	34440	Inspector, licensing
33444	34310	Patient care secretary	33542	34441	Officer (immigration/passport issuing)
33445	41150	Stenographer, medical	<b>3355</b>		<b>Police inspectors and detectives</b>
33446	34310	Pathology secretary	33551	34500	Inspector (assistant/sub) police
33447	34310	Medical transcriptionist	33552	34500	Inspector, ranger police
<b>3351</b>		<b>Customs and border inspectors</b>	33553	34503	Agent, inquiry (police)
33511	34410	Appraiser (principal)	33554	34501	Officer, cypher/Detective,store
33511	34410	Preventive officer	33555	34500	Sepoy , ranger police
33511	34410	Superintendent (deputy), customs	33556	34500	Constable, detective
33512	34411	Inspector (border/customs)	33557	34500	Detective, police
33512	34411	Officer, passport checking	33557	34500	Inspector, detective
33513	34410	Guard, border	33557	34500	Investigator, police
33514	34410	Officer, customs	33557	34500	Officer, police: detective
33515	34410	Officer, immigration	33557	34500	Officer, police: inspector
<b>3352</b>		<b>Government tax and excise officials</b>	33558	34500	Sergeant, detective

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>3359</b>		<b>Regulatory government associate professionals not elsewhere classified</b>	34114	34320	Nazar
			34115	34320	Reader
			34115	34320	Reader to district
33591	34491	Inspector (civil service/government administration	34115	34320	Reader( court)
33591	34491	Inspector, marketing/ price/ rates (claims)	34116	34320	Officer, law
33591	34491	Inspector, wage/ weights and measures)	34117	34320	Justice of the Peace
			34117	34320	Paralegal
33592	34493	Officer, non-gazetted	34117	34320	Searcher, title
33592	34491	Official, electoral	<b>3412</b>		<b>Social work associate professionals</b>
33593	34494	Censor, government administration	34121	34600	Almoner, associate professional
33594	34390	Inspector, agricultural	34121	34600	Caseworker (child/family/social welfare) associate professional
33594	34390	Inspector, fisheries			
33594	34390	Inspector, forestry	34122	34603	Officer ,/probation) (associate professional)
<b>3411</b>		<b>Legal , and related associate professionals</b>	34122	34600	Officer, family planning, (associate professional)
34111	34503	Agent (inquiry)			
34111	34503	Detective	34122	34602	Officer, rural development (associate professional/parole/probation)
34111	34501	Detective, store			
34111	34503	Investigator) private	34123	34600	Social welfare worker(communit/culture centre
34112	34320	Assistant (barrister's/legal/ solicitor/broker's/insurance/bank	34123	34600	Social welfare worker (medical/ mental/other specialism)
34113	34320	Clerk (barrister's/court/ judge's/legal/ probate	34123	34600	Social welfare worker(blind/recovery of lost children
34113	34321	Clerk, conveyancing/insurance	34123	34600	Social welfare worker, maternity and child (associate professionals)
34113	34322	Clerk, adjustment(insurance)/ insurance)	34124	34601	Housemaster, approved school (associate professional)
34114	34320	Bailiff/ Bailiff (water)	34124	34601	Organiser, home help. associate professional
34114	34320	Munshi			
34114	34320	Naib court	34125	34600	Visitor, family planning (associate professional)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
34126	34604	Leader, club/recreation (associate professional)	34135	34800	Brother
34127	34604	Housefather/mother/ community/ cultural centre) (associate professional)	34135	34800	Friar
34128	34600	Instructor, life skills	34135	34800	Sister religious
34128	34600	Supervisor, women's shelter	<b>3421</b>		<b>Athletes and sports players</b>
34128	34604	Warden, community centre/probation home (associate professional)	34211	34750	Athlete
34128	34600	Worker, community development	34211	34750	Jockey
34128	34600	Worker, community services	34212	34750	Player (bridge/ billiards) professionals
34128	34600	Worker, crisis intervention	34212	34750	Player, cards
34128	34600	Worker, delinquency: associate professional	34212	34750	Player, chess
34128	34600	Worker, disability services	34212	34750	Player, hockey
34128	34600	Worker, family services	34212	34750	Player, poker
34128	34600	Worker, mental health support	34212	34750	Player, sports
34128	34600	Worker, social: associate professional	34212	34750	Player, tennis
34128	34600	Worker, welfare support	34213	34750	Aerialist, sport
34128	34600	Worker, youth services	34213	34750	Bodybuilder, muscles
<b>3413</b>		<b>Religious associate professionals</b>	34213	34750	Boxer
34131	32420	Faith healer	34213	34750	Builder, body: muscles
34132	34800	Evangelist	34213	34750	Fighter
34133	34800	Preacher lay	34213	34750	Gymnast, sport
34133	34800	Salvationist	34213	34750	Wrestler
34133	34801	Worker (parish/religious/ lay)	<b>34213</b>	<b>34750</b>	<b>Springboard or /Platform</b>
34134	34800	Monk, associate professional	<b>34213</b>	<b>34750</b>	<b>Fighter/Gymnast,sport</b>
34134	34800	Muezzin	34214	34750	Driver (motor racing)
34134	34800	Nun (associate professional)	34215	34750	Diver, springboard or platform
			34215	34750	Footballer
			34215	34750	Gambler
			34215	34750	Goal keeper
			34215	34750	Golfer

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
34215	34750	Keeper, goal	<b>3423</b>		<b>Fitness and recreation instructors and program leaders</b>
34215	34750	Racer (cycle)			
34215	34750	Racer, automobile			
34215	34750	Skier	34231	34751	Instructor (physical training/sports)
34215	34750	Sportsman	34231	34750	Instructor, aerobics
34215	34750	Sportswoman	34231	34750	Instructor, fitness
34216	34750	Cricketer	34231	34750	Instructor, horse riding
34216	34750	Jumper ,show	34231	34750	Instructor, recreation
34216	34750	Motorcyclist racing	34231	34750	Instructor, underwater diving
34216	34750	Rider, horse sport	34232	34750	Leader, program: recreation
34216	34750	Rider Motorcycle racing	34232	34752	Trainer (yoga/ physical)
<b>3422</b>		<b>Sports coaches, instructors and officials</b>	34232	34750	Trainer, aerobics
			34232	34750	Trainer, fitness
34221	34751	Coach, (athletic/sports/games)	34232	34750	Trainer, personal
34221	34751	Instructor (billiards/bridge)	34233	33402	Sailing Instructor
34221	34751	Instructor(rifle/sports/chess)	34233	34753	Timer (horse race)
34222	34750	Instructor, ski	34234	34750	Guide, outdoor adventure
34222	34752	Trainer (boxing/golf/martial arts/sports/wrestling)	<b>3431</b>		<b>Photographers</b>
34223	34753	Referee, sports	34311	31310	Photographer (advertising/commercial/fashion/ micro)
34223	34753	Starter ,sports	34311	31310	Photographer, architecture
34223	34753	Steward (race tract)	34311	31310	Photographer, industrial
34223	34753	Umpire, sports	34311	31310	Photographer, medical
34224	34753	Judge ,sports	34311	31310	Photographer, news
34224	34753	Officer, sports	34311	31310	Photojournalist
34224	34753	Official, (sports)	34312	31310	Photographer (aerial/police/portrait/press/scientific)
34224	34753	Secretary racing and handicapper	34313	31310	Journalist, photo
			34313	31310	Microphotographer

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
34313	31310	Operator, camera: still photography	34341	51220	Chef de cuisine Cook
<b>3432</b>		<b>Interior designers and decorators</b>	34342	51220	Chef, pastry
34321	34710	Designer (graphic/lithographic/typographical)	34342	51220	Cook, chief
34321	34710	Designer, armorial	34342	51220	Cook, head
34321	34710	Designer, decoration	34342	51220	Cook, sauces and condiments
34321	34710	Designer, interior	34342	51220	Saucier
34321	34710	Designer, scenery	34342	51220	Sous-chef
34321	34710	Designer, set	34343	51220	Chef, head
34321	34710	Designer, stage	34343	51220	Executive chef
34322	34711	Decorator (interior/motion picture set)	<b>3435</b>		<b>Other artistic and cultural associate professionals</b>
34322	34710	Decorator, film set	34351	34712	Tattooist
34323	34710	Dresser, window	34352	34710	Body artist
34324	34710	Merchandiser, visual	34353	34710	Floor manager (broadcasting)
<b>3433</b>		<b>Gallery, museum and library technicians</b>	34354	12290	Lighting technician
34331	34711	Director (art (motion picture)/display/ art (printing and publishing))	34355	12290	Program co-ordinator (broadcasting)
34332	34712	Supervisor, publication	34356	12290	Prompter
34333	34390	Accessioner, library	34357	34740	Artist, stunt
34333	34710	Assistant, curatorial	34357	34710	Boy, script
34333	34390	Officer, reference: library	34357	34710	Coordinator, stunt
34334	32110	Taxidermist	34357	34710	Dresser, theatrical
34335	34710	Technician, curatorial	34357	34740	Man, stunt
34335	34710	Technician, gallery	34357	12290	Manager, stage
34335	34390	Technician, library	34357	34740	Master, property: broadcasting
34335	34710	Technician, museum	34357	34710	Painter, body
<b>3434</b>		<b>Chefs</b>	34357	34740	Stuntman
34341	51220	Chef	34358	34740	Technician, special effects
			34358	34740	Technician, stage
			34358	34740	Technician, theatre



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
34358	34740	Walker-on	35123	31210	Analyst, IT helpdesk
<b>3511</b>		<b>Information and communications technology operations technicians</b>	35123	31210	Analyst, PC support
			35123	31210	Analyst, software: support
			35124	31210	Consultant, internet: helpdesk
35111	31220	Operator , computer	35124	31210	Consultant, internet: support
35112	31220	Operator , computer peripheral equipment	35124	31210	Consultant, IT, helpdesk
35113	31220	Assistant, computer: engineering (operations)	35124	31210	Consultant, software support
35113	31220	Operator, computer printer: high-speed	35124	31210	Consultant, support: information technology
35114	31210	Technician, engineering: systems (computers)	35124	31210	Consultant, technical: software support
<b>3512</b>		<b>Information and communications technology user support technicians</b>	35125	31210	Engineer, computer: computer support
			35125	31210	Engineer, customer service: computer helpdesk
35121	31210	Assistant, computer: engineering (software support)	35125	31210	Engineer, desktop support
35121	31210	Assistant, computer: programming	35125	31210	Engineer, internet: helpdesk
35121	31210	Assistant, computer: user services	35125	31210	Installer, software
35121	31210	Assistant, programming: ICT	35126	31210	Officer, computer services: helpdesk
35121	31210	Computer Assistant (database analysis/ systems analysis/ engineering)	35126	31210	Officer, computer support
35122	31213	Computer Assistant (programming/ communications)	35126	31210	Officer, customer service: computer support
35123	31210	Agent, technical support: information technology	35126	31210	Officer, desktop applications support
35123	31210	Analyst, application support	35126	31210	Officer, desktop support
35123	31210	Analyst, computer: helpdesk	35126	31210	Officer, helpdesk: information technology( IT)
35123	31210	Analyst, computer: software support	35126	31210	Officer, internet: helpdesk
35123	31210	Analyst, desktop: support	35126	31210	Officer, internet: support
35123	31210	Analyst, helpdesk	35126	31210	Officer, IT support
			35126	31210	Officer, network support
			35126	31210	Officer, support: IT



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
35127	31210	Operator, computer helpdesk	<b>3514</b>		<b>Web technicians</b>
35127	31210	Operator, helpdesk: IT	35141	31212	Computer Assistant (systems design/users' services)
35127	31210	Operator, helpdesk: software	35142	31210	Computer Assistant ,Website (administrator/technician )
35127	31210	Operator, internet helpdesk	35143	31210	Administrator, website
35127	31210	Representative, internet helpdesk	35143	31210	Coordinator, web: managing website
35127	31210	Representative, internet support	35144	31210	Engineer, internet: managing websites
35127	31210	Representative, technical: computer support	35144	31210	Manager, e-commerce: managing website
35127	31210	Support, computer	35144	31210	Manager, information: website management
35127	31210	Support, internet	35144	31210	Manager, internet: managing website
35128	31210	Technician, computer support	35144	31210	Manager, website
35128	31210	Technician, computer: user support	35144	31210	Master, web
35128	31210	Technician, customer service support: computing	35144	31210	Officer, web development
35128	31210	Technician, end user: computing	35145	31210	Publisher, desk-top: web
35128	31210	Technician, helpdesk: computing	35145	31210	Publisher, electronic: internet
35128	31210	Technician, internet helpdesk	35145	31210	Publisher, web
35128	31210	Technician, software	35146	31210	Technician, website
<b>3513</b>		<b>Computer network and systems technicians</b>	35147	31210	Webmaster
35131	31216	Technician (computer/engineering systems)	<b>3521</b>		<b>Broadcasting and audio-visual technicians</b>
35132	31210	Assistant , communications: ICT	35211	31310	Assistant, production: media
35132	31210	Assistant, computer: communications	35211	31311	Cameraman, motion picture
35132	31210	Assistant, computer: network	35211	31310	Cameraman, video
35132	31210	Assistant, computer: systems design	35211	31311	Cinematographer
35133	31210	Technician, computer: network	35211	31310	Mixer, sound
35133	31210	Technician, network support	35212	31312	Operator (audio equipment (radio/television))

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
35212	31310	Operator, audiovisual	35217	31321	Operator, broadcasting equipment (radio/television/video/field)
35212	31314	Operator, dubbing equipment/sound-mixing equipment	35218	31322	Operator (control-room equipment (radio/television))
35212	31314	Operator, light/(camera (motion picture)/(television))	35218	31322	Operator(public address equipment)
35212	31312	Operator, microphone	35218	31323	Operator, cinematograph
35212	31310	Operator, studio equipment: radio	35219	31320	Inspector, telegraphic traffic
35212	31310	Operator, studio equipment: television	35219	31320	Officer, radio station
35212	31320	Operator, transmitting equipment: radio	35219	31323	Projectionist, cinema
35212	31320	Operator, transmitting equipment: television	35219	31320	Signaller, telegraph
35213	31312	Operator, recording equipment (discs/tape/video/wire)	35219	31320	Station Telegrapher (railway)
35214	31312	Assistant, motion picture	35219	31320	Telegrapher/Telegraphist, testing
35214	31312	Editor, sound (motion picture)	<b>3522</b>		<b>Telecommunications engineering technicians</b>
35214	31312	Tester, recording	35221	31322	Supervisor (control room (radio/television)/control transmission (broadcasting))
35214	31312	Worker, audio-metrical	35222	31322	Technician, control room (radio and television broadcasting)
35215	31315	Mechanic, audio visual	35223	31141	Telecommunication-engineering technician (aerospace/other/radar/signal systems/radio/television/telegraph/telephone/other)
35215	31315	Technician (sound (radio/television studio)/sound-effects/sound-testing)	35224	31320	Officer, ship: radio
35215	31320	Technician, broadcasting	35224	31320	Operator, morse code
35215	31310	Technician, sound-testing	35224	31320	Operator, radio equipment: flight
35215	31310	Technician, video	35224	31320	Operator, radio equipment: land-based
35216	31320	Operator (morse code/photo-radio/radio equipment (flight/land-based/sea-based)	35224	31320	Operator, radio equipment: sea-based
35216	31320	Operator, radio telegraph)/telecommunications equipment/wireless	35224	31320	Operator, telecommunications:
35216	31320	Semaphone			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		equipment	41318	41120	Operator, word
35224	31320	Operator, telegraphic	41318	41120	processing
		equipment			Processor, word
35224t	31320	Telegrapher	41319	41111	Steno typist
<b>4110</b>		<b>General office clerks</b>	<b>4132</b>		<b>Data entry clerks</b>
41101	41900	Checker, time	41321	41140	Clerk, adding machine
41101	41900	Timekeeper	41321	41130	Clerk, data
41102	41902	Keeper, record			entry/punching machine
41102	41902	Sorter, record	41322	41140	(keys)/ electronic mail
					Clerk, comptometer
41103	41902	Clerk, addressing	41322	41131	Clerk, data converter
		machine/list			(any medium)
		(mail/addresses)	41322	41130	Clerk, data
41104	41904	Clerk, office (general)			entry/punching
					machine(card & tape)
<b>4120</b>		<b>Secretaries (general)</b>	41322	41131	Operator, converter(tape
					to card)
41201	41150	Secretary (typing/ word	41322	41132	Operator, punched card
		processing)			sorting machine
41201	41150	Secretary/ Stenography	41322	41130	Operator, punching
					machine(card& tape)
41202	41150	Secretary, confidential	41322	41133	Operator, tabulating
					machine (punch card)
41203	41150	Secretary, union council	41323	41140	Clerk, computing
					machine
<b>4131</b>		<b>Typists and word</b>	41323	41140	Operator / clerk,
		<b>processing operators</b>			accounting machine
41311	41110	Operator, automatic	41323	41140	Operator ,bookkeeping
		typewriter			machine/ calculating-
41311	41110	Typist			machine
41311	41111	Typist, shorthand	41324	41130	Clerk, data input
41311	41110	Varitypist	41324	41130	Clerk, payment entry
41312	41111	Stenographer (general/	41324	41141	Operator/clerk,
		specialized )			automatic data-
41313	41112	Clerk, justowriting			processing machine
			41325	41140	Operator, comptometer
41314	41120	Clerk, word processing	41325	41142	Operator/clerk, posting
					machine/ invoicing
41315	41121	Clerk, telex/fax			machine
41316	41120	Clerk other	41326	41142	Clerk, data entry (any
					machine)
41317	41120	Clerk, teleprinter			
41317	41110	Clerk, typing	<b>4211</b>		<b>Bank tellers and</b>
					<b>related clerks</b>
41318	41110	Justowriter	42111	42110	Cash-accounting

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
42111	42110	Cashier	<b>4221</b>		<b>Travel consultants and clerks</b>
42111	42110	Teller, bank	42211	42210	Assistant, tourist information
42112	34320	Assistant, bank	42212	42210	Clerk, booking/ ticket issuing (travel agency)
42112	42110	Cashier, bank	42213	42210	Adviser, travel
42112	42110	Cashier, change-booth	42213	42210	Agent, booking: travel
42112	42120	Cashier, exchange currency	42213	42210	Agent, check-in
42112	42110	Clerk, bank	42213	42210	Agent, ticket: airline
42112	42120	Moneychanger	42213	42210	Agent, ticket: travel
42113	42122	Clerk, post office counter	42213	13190	Agent, travel
42114	42120	Teller, other	42213	51110	Attendant, airport: check-in
<b>4212</b>		<b>Bookmakers, croupiers and related gaming workers</b>	42213	51110	Attendant, check-in: airline
42121	42130	Bookmaker	42213	51110	Clerk, check-in: airport
42121	42130	Clerk bookmaking	42213	42210	Clerk, information: travel
42121	42130	Operator, gambling-table / pool (betting)	42213	42211	Clerk, recreational
42122	42131	Croupier	42213	42210	Clerk, reservations: travel
42122	42131	Operator, pari-mutuel system	42213	42210	Clerk, tourism information
42123	42130	Croupier, gambling-table	42213	42210	Clerk, travel
42124	42130	Dealer, gaming	42213	42210	Clerk, travel desk
<b>4213</b>		<b>Pawnbrokers and money-lenders</b>	42214	34140	Consultant, travel
42131	42140	Money-lender	42214	42210	Counsellor, tourism information
42132	42141	Pawnbroker	42214	42210	Counsellor, travel
<b>4214</b>		<b>Debt-collectors and related workers</b>	42214	42210	Counsellor, visitor information
42141	42150	Clerk, bills	42214	42210	Officer, tourism information
42141	42150	Collector, account	42215	34141	Organizer , travel
42142	42151	Collector, bill/ charity/ coupon/ debt/ payment/ rent	<b>4222</b>		<b>Contact centre information clerks</b>
			42221	42221	Clerk, appointments
			42222	42221	Clerk/officer, information

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
42223	42220	Agent, directory assistance	42252	42220	Clerk, inquiries: counter
42223	42220	Assistant, call centre	<b>4226</b>		<b>Receptionists (general)</b>
42224	42220	Clerk, call centre	42261	42220	Receptionists
42224	42220	Clerk, customer contact centre	42262	42220	Receptionist, medical/dental
42224	42220	Clerk, information: call centre	42263	42220	Clerk, appointments
42224	42220	Clerk, information: customer contact centre	<b>4227</b>		<b>Survey and market research interviewers</b>
42225	42220	Coach, call centre	42271	41222	Clerk, survey
42225	42220	Coach, contact centre	42271	41222	Enumerator
42225	42220	Coach, phone	42271	41222	Interviewer
42226	42220	Officer, customer service: call centre	42272	41222	Officer, Manpower Survey
42226	42220	Officer, customer service: directory assistance	42273	4122	Officer, mobile, survey
42227	42220	Operator, call centre	42274	41900	Assistant, survey: interviewing
42227	42220	Operator, directory assistance	42274	41900	Interviewer, market research
<b>4223</b>		<b>Telephone switchboard operators</b>	42274	41900	Interviewer, public opinion
42231	42230	Attendant, switch board	42274	41900	Interviewer, survey
42231	42230	Dispatcher, call	42275	41900	Officer, field: interviewing
42231	42230	In charge, telex	42275	41900	Officer, field: market research
42232	42230	Telephonist	42276	41900	Operator, call centre: conducting surveys
42233	42230	Operator, answering service	42276	41900	Operator, telephone: market research
42233	42230	Operator, switch board (telephone)	42276	41900	Operator, telephone: surveying
<b>4224</b>		<b>Hotel receptionists</b>	42277	41900	Researcher, interviewing: market research
42241	42220	Receptionist, hotel	42277	41900	Researcher, interviewing: surveys
42242	42220	Hotel front desk clerk	42277	41900	Researcher, market: cold calling
<b>4225</b>		<b>Enquiry clerks</b>	42277	41900	Researcher, market: interviewing or conducting surveys
42251	42220	Clerk, information	42277	41900	Researcher, market: telephone
42251	42221	Clerk/officer, inquiries			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
42278	41900	Supervisor, market research: interviewing	43125	34320	Assistant, broker's
42278	41900	Surveyor, market research	43125	34320	Assistant, insurance: adjustment
42278	41900	Surveyor, telephone	43125	34320	Assistant, insurance: claims
<b>4229</b>		<b>Client information workers not elsewhere classified</b>	43125	34320	Assistant, insurance: policy
42291	42220	Clerk, ward	<b>4313</b>		<b>Payroll clerks</b>
42291	42220	Client information worker (other)	43131	41211	Clerk, payroll
42292	42220	Hospital admissions clerk	43132	41211	Clerk, salaries/wages
42293	42220	Eligibility interviewer/ specialist	<b>4321</b>		<b>Stock clerks</b>
42294	42220	Consultant, eligibility	43211	41310	Assistant, field (air cargo)
<b>4311</b>		<b>Accounting and bookkeeping clerks</b>	43211	41310	Clerk, freight (any type of freight)
43111	41210	Clerk, accounts/ bookkeeping (accounts/ discount)	43212	41311	Arranger, store / stock-control (inventory /records)/ warehouse/ supply
43112	41210	Clerk, cost computing / estimating/ invoice/ ledger	43212	41311	Clerk, stock-control (inventory /records)/ warehouse/ supply
43113	41212	Clerk, office cash	43213	41311	Issuer, fuel / store/ tool/ material
43114	41213	Clerk, auction	43213	41311	Lister, fuel / store/ tool/ material
<b>4312</b>		<b>Statistical, finance and insurance clerks</b>	43214	41310	Clerk, depository: furniture
43121	41220	Clerk( actuarial / adjustment/ finance/ tax / currency)	43214	41310	Clerk, dispatch: stock
43122	41221	Clerk( bond / brokerage/ collateral/ credit/mortgage/ investment/ securities)	43214	41310	Clerk, freight: dispatching
43122	41210	Clerk, audit	43214	41310	Clerk, freight: inward
43122	41220	Clerk, finance	43214	41310	Clerk, goods: inward
43122	34320	Clerk, insurance	43214	41310	Clerk, receiving
43123	41222	Clerk( statistical/ rating)	43214	41310	Clerk, scale
43124	41223	Observer, silt	43214	41310	Clerk, storeroom
43124	41223	Watcher, tide	43214	41310	Clerk, tally
			43214	41310	Clerk, weighbridge
			43214	41312	Clerk, weighing
			43214	41311	Verifier ,stock

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
43214	41312	Weigher	43235	41330	Clerk, dispatch: air transport
43215	41310	Attendant, tool crib	43235	41310	Clerk .logistics
43215	41310	Operator, weighbridge	43235	41330	Clerk, flight operations
43216	41310	Storekeeper	43235	41310	Clerk, freight: receiving
<b>4322</b>		<b>Production clerks</b>	43235	41310	Clerk, freight: routing
43221	41320	Clerk, planning (materials)	43235	41310	Clerk, freight: shipping
43222	41320	Clerk, production planning/coordination/schedule	43235	41310	Clerk, freight: traffic
43223	41320	Clerk, order: materials	43235	41310	Clerk, goods: railway
43223	41320	Clerk, production	43236	41310	Controller, clerical: air transport service
43223	41320	Clerk, schedule: materials	43236	41310	Controller, clerical: airline traffic
<b>4323</b>		<b>Transport clerks</b>	43236	41310	Controller, clerical: railway service
43231	41330	Checker, bogey (railway)	43236	41310	Controller, clerical: train
43231	41330	Clerk, air transport operations	43236	41310	Controller, clerical: transport service
43231	41330	Clerk, forwarding (shipping and receiving)	43237	41310	Dispatcher, clerical: aircraft
43231	41330	Shed man	43237	41310	Dispatcher, clerical: boat
43231	41330	Transport clerks	43237	41310	Dispatcher, clerical: bus
43232	41331	Berthing master	43237	41310	Dispatcher, clerical: gas pipelines
43232	41331	Inspector, railway transport service	43237	41310	Dispatcher, clerical: oil pipelines
43232	41331	Inspector, traffic investigation	43237	41310	Dispatcher, clerical: railway
43232	41331	Inspector, clerical (road transport service)	43237	41310	Dispatcher, clerical: train
43232	41331	Superintendent, railway transport service/ traffic investigation	43237	41310	Dispatcher, clerical: transport service
43232	41331	Superintendent, clerical (road transport service)	43237	41310	Dispatcher, clerical: truck
43233	41332	Examiner, train	43237	41310	Inspector, clerical: railway transport (service)
43233	41332	Inspector, shed	43237	41310	Inspector, clerical: road transport (service)
43233	41332	Yardman (railway)	43238	41334	Wharfinger
43234	41333	Float master/Clerk logistic	43238	41310	Superintendent, clerical: barge
			43238	41310	Superintendent, clerical:



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		cargo	44123	41422	Courier, travel
43238	41310	Superintendent, clerical: ferry	44124	41420	Clerk, dispatch: mail
43238	41310	Superintendent, clerical: quay	44124	41420	Clerk, mail
43238	41310	Superintendent, clerical: water transport (terminal)	44124	41423	Guard, mail
43238	41310	Superintendent, clerical: wharf	44125	41420	Officer, postal
43238	41310	Yardmaster, railway	44126	41420	Postie
<b>4411</b>		<b>Library clerks</b>	<b>4413</b>		<b>Coding, proof-reading and related clerks</b>
44111	41410	Clerk (Assistant), book-loan / library	44131	41430	Revisor, coding/ listing/ scripts (data-processing/statistics)
44112	41411	Cataloguer, clerical	44132	41431	Clerk, proof reading
44112	41411	Clerk, classification/ index	44133	41432	Clerk, document-sorting machine
44113	41411	Keeper, negative and plate	44133	41432	Operator, document-sorting machine
44114	41412	Clerk, reproduction (office)	44134	41433	Operator, franking machine
44114	41412	Operator, reproduction (office)	44135	41430	Clerk, classification: data processing
44115	41410	Clerk, acquisitions: library	44135	41430	Clerk, classification: statistics
44115	41410	Clerk, franking machine	44135	41430	Clerk, coding
44115	41410	Clerk, loans: library	44135	41430	Clerk, coding: data-processing
44115	41410	Filer, library	44135	41430	Clerk, coding: statistics
44116	41410	Mimeographer	44135	41430	Clerk, listing
44117	41410	Officer, loans: library	44135	41430	Clerk, scripts
<b>4412</b>		<b>Mail carriers and sorting clerks</b>	44136	41430	Coder, clerical
44121	41420	Controller, clerical (mail/postal service)	44136	41430	Coder, data-processing
44121	41420	Sorter, clerical (mail/postal service)	44136	41430	Coder, statistics
44122	41421	Clerk, post office	<b>4414</b>		<b>Scribes and related workers</b>
44122	41421	Mailman	44141	41440	Scribe
44122	41421	Post carrier	44142	41441	Clerk, form filling assistance
44122	41421	Postman	44143	41440	Writer, public



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>4415</b>		<b>Filing and copying clerks</b>	<b>44193</b>	41900	<b>Clerk (other)</b>
44151	41411	Clerk , filing	44193	41904	Daftri
44151	41411	Restorer, filing	44194	41900	Clerk, addressing machine
44152	41412	Clerk, photocopying	44194	41900	Clerk, advertising
44153	41411	Assistant, filing	44194	41900	Clerk, classified advertising
44154	41410	Clerk, copying	44194	41900	Clerk, correspondence
44155	41410	Clerk, document duplication	44194	41900	Clerk, list: addresses
44156	41410	Clerk, reproduction processes: office	44194	41900	Clerk, list: mail
<b>4416</b>		<b>Personnel clerks</b>	44194	41900	Clerk, publication
44161	41901	Clerk, compilation (directory)	44195	41900	Clipper, press
44162	41902	Clerk, records (personnel)	44196	41900	Compiler, directory
44163	41900	Clerk, staff	<b>5111</b>		<b>Travel attendants and travel stewards</b>
44164	41900	Assistant, human resource	51111	51110	Host(ess), air crew/airport/bus/train
44165	41900	Clerk, human resources	51111	51110	Steward(ess) , air crew/aircraft/ ship/bus/train
44165	41900	Clerk, leave	51112	51111	Attendant, airport/ flight/ ship's cabin
44165	41900	Clerk, personnel	51113	51112	Purser, aircraft
44165	41900	Clerk, recruitment	51113	51110	Purser, flight
44165	41900	Clerk, roster	51114	51110	Steward, cabin
44165	41900	Clerk, rostering workers	51114	51100	Steward, chief: ship
44166	41900	Coordinator, crewing	51114	51110	Stewardess, cabin
44166	41900	Officer, crewing	51114	51100	Stewardess, chief: ship
44166	41900	Officer, rostering	51114	51110	Stewardess, ship
44166	41900	Programmer, workforce			
44167	41900	Scheduler, crew			
<b>4419</b>		<b>Clerical support workers not elsewhere classified</b>	<b>5112</b>		<b>Transport conductors</b>
44191	41904	Moharrar thana	51121	51120	Conductor( (trolley)bus/ cable car/ ferryboat/ hovercraft)
44192	41905	Clerk, cypher / kardex	51121	51120	Conductor ( pull man car/ tram/ train )

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
51122	51120	Examiner, travelling ticket	51202	51220	Cook, special diets/vegetable
51122	51120	Superintendent, travelling ticket examiner	51203	51221	Cook, domestic
51123	51120	Attendant, pullman car	51204	51222	Cook, private service
51123	51120	Attendant, sleeping car	51204	51222	Laangri
51124	51120	Conductor, sleeping car	51205	51223	Cook, (fish/meat) / sterilizing/ pressure
51124	51120	Guard, train: passengers			
51125	51120	Inspector, ticket: public transport	<b>5131</b>		<b>Waiters</b>
<b>5113</b>		<b>Travel guides</b>	51311	51230	Teaman, food/ wine
51131	51131	Guide, museum/art gallery/factory etc.	51311	51230	Waiter; food/ wine
51131	51130	Travel guide (any type)	51312	51231	Steward, mess/ ship (food/wine)
51132	51130	Director, tour	51313	51232	Maitre d' hotel
51132	51130	Docent	51314	51234	Attendant ,canteen/ restaurant
51132	51130	Educator, museum	51314	51234	Clearer, canteen/ restaurant/table
51132	51130	Escort, tour	51314	51234	Setter, canteen/ restaurant
51133	51130	Guide, discovery	51315	51230	Sommelier
51133	51130	Guide, industrial establishment	51315	51230	Steward, ship: dining saloon
51133	51130	Guide, nature park	51315	51230	Stewardess, mess
51133	51130	Guide, safari	51316	51230	Waiter, head
51133	51130	Guide, sightseeing	51316	51230	Waitress
51133	51130	Guide, theme park	51316	51230	Waitress, head
51133	51130	Guide, tour	51316	51230	Waitress, wine
51133	51130	Guide, tourist	<b>5132</b>		<b>Bartenders</b>
51133	51130	Guide, travel	51321	51233	Barman
51134	51130	Interpreter, historical	51321	51233	Bartender
51134	51130	Interpreter, science	51322	51230	Attendant, bar: drinks service
51135	51130	Manager, tour	51322	51230	Barista
<b>5120</b>		<b>Cooks</b>	51323	51230	Barkeeper
51201	51220	Cook, canteen/restaurant/work camp/ ship	51323	51230	Barmaid

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>5141</b>		<b>Hairdressers</b>	51511	51210	Housekeeper (hotel/ executive)
51411	51410	Barber	51512	51210	Officer, catering
51411	51413	Dresser (wig)	51513	51210	Supervisor, housekeeping (except private service)
51411	51410	Hairdresser	51514	51211	Attendant, (hostel/resthouse
51411	51410	Hairstylist	51514	51211	Servant (hostel/resthouse)
51412	51410	Hair care specialist	51515	51211	Steward (chief) (hotel)
51413	51410	Consultant, hair care	51517	51211	Boy, hostel
51413	51410	Specialist, hair care	51516	51211	Matron (housekeeping)
<b>5142</b>		<b>Beauticians and related workers</b>	51517	51214	Supervisor/ Warden (dormitory/ camp)
51421	51411	Beautician/Beauty parlor( make-up (stage/studio))	51518	51210	Steward, hotel
51421	51411	Cosmetologist	51518	51210	Stewardess, hotel
51422	51412	Manicurist	51518	51210	Stewardess, house
51422	51411	Trichologist/Chiroprapist	<b>5152</b>		<b>Domestic housekeepers</b>
51423	51413	Make-up artist (stage/studio)	51521	51210	Housekeeper (domestic)
51424	51414	Attendant, pool/bath/sauna/ salon	51522	51210	Butler(house)
51425	51410	Artist, make-up	51522	51210	Servant (house)
51425	51410	Attendant, hot-room	51522	51210	Steward(house)
51425	51410	Attendant, spa	51523	51210	Bed and breakfast operator
51425	51410	Attendant, turkish bath	51524	51210	Operator, guest house
51426	51410	Consultant, beauty	<b>5153</b>		<b>Building caretakers</b>
51426	51410	Consultant, slimming	51531	91410	Caretaker ,building
51426	51410	Consultant, weight loss	51531	91410	Chowkidar (building)
51427	51410	Pedicurist	51531	91410	Concierge
51427	51410	Therapist, beauty	51531	91410	Janitor (apartment house/ building)
<b>5151</b>		<b>Cleaning and housekeeping supervisors in offices, hotels and other establishments</b>	51532	91410	Sexton
			51532	91410	Verger
			51532	91412	Supervisor (auqaf property)
			51533	91410	Supervisor, air field

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		(caretaker aerodrome)	<b>5164</b>		<b>Pet groomers and animal care workers</b>
51534	91411	Ayah, waiting room			
51534	91411	Caretaker, jockey room	51641	51391	Attendant, Aid(veterinary clinic)
51535	91410	Sacristan	51642	61293	Keeper (animal/ game/ zoo/ aviary)
51535	91410	Superintendent, building	51642	61293	Zoo keeper
<b>5161</b>		<b>Astrologers, fortune-tellers and related workers</b>	51643	61297	Trainer (camel/ dog/ horse-breaking/ racehorse)
51611	51510	Astrologer	51643	61296	Worker ,zoo(skilled)
51612	51520	Fortune-teller	51644	61290	Attendant, animal
51613	51521	Numerologist	51644	61290	Attendant, kennel
51614	51522	Palmist	51644	61290	Attendant, laboratory: animal
<b>5162</b>		<b>Companions and valets</b>	51645	61290	Breaker, horse
51621	51420	Maid (personal)	51645	61290	Breeder, laboratory: animal
51621	51421	Manservant	51646	61290	Gamekeeper
51621	51422	Valet, personal	51646	61290	Horse-breaker
51622	51422	Valet ( hotel/Ship)	51646	61290	Raiser, laboratory: animal
51623	51423	Companion	51647	61290	Worker, kennel
51624	51420	Companion, except health or aged care	51647	61290	Worker, laboratory: skilled (animals)
51625	51420	Companion, lady's	<b>5165</b>		<b>Driving instructors</b>
51626	51420	Companion, man's	51651	33403	Instructor ,sailing/driving
51627	51420	Maid, lady	51652	33400	Examiner, driving
<b>5163</b>		<b>Undertakers and embalmers</b>	51653	33400	Tester, driving
51631	51430	Attendant (funeral / undertaker's)	<b>5169</b>		<b>Personal services workers not elsewhere classified</b>
51632	51430	Director (funeral)	51691	51491	Host (club)
51632	51430	Mortician	<b>5211</b>		<b>Stall and market salespersons</b>
51632	51430	Undertaker	52111	52300	Salesperson (market)
51633	51431	Embalmer	52112	52301	Salesperson (kiosk/ street stall)
51633	51431	Gussal			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
52113	52301	Seller (coupon)	<b>5222</b>		<b>Shop supervisors</b>
52114	52300	Assistant, sales: market stall	52221	52200	Supermarket supervisor
52114	52300	Assistant, sales: street stall	52222	52200	Checkout supervisor
52115	52300	Stallholder, market	52223	52200	Supervisor, sales assistants
52116	52300	Vendor, market	52224	52200	Supervisor, shop
<b>5212</b>		<b>Street food salespersons</b>	<b>5223</b>		<b>Shop sales assistants</b>
52121	91110	Hawker (food)	52231	52200	Order man (shop/retail establishment)
52121	91110	Khokhewalas	52231	52200	Salesperson(shop/retail establishment)
52121	91110	Stall-holders	52232	52200	Salesperson (wholesale establishment)
52121	91110	Street salesperson (food)	52233	52201	Assistant ( shop/store)
52122	91112	Vendor, refreshments (cinema/theatre/ road-railway transport)	52233	52201	Attendant (shop/store)
52123	91112	Vendor (water ways/fresh-water)	52234	52200	Agent, leasing: vehicle
52124	91110	Pedlar, food	52234	52200	Assistant, pharmacy: sales
52125	91110	Vendor, street: drinks	52235	52200	Clerk, sales
52126	91110	Vendor, street: food	52235	52200	Clerk, store: sales
<b>5221</b>		<b>Shop keepers</b>	52235	52200	Consultant, sales: automobile
52211	13143	Marchant Retail Trade	52236	52200	Representative, automobile leasing
52212	13143	Proprietor (retail trade)	52236	52200	Representative, sales: automobile
52212	13143	Shopkeeper (Retailer )	52237	52200	Salesperson, automobile
52213	13144	Agent(working) (import-export)	52237	52200	Salesperson, car
52213	13144	Proprietor (working) (import-export )	<b>5230</b>		<b>Cashiers and ticket clerks</b>
52214	13140	Newsagent	52301	42110	Cashier (other)
52215	13140	Florist, operating a shop	52302	42112	Clerk (toll collection)
52216	13140	Grocer	52303	42111	Clerk ticket issuing (entertainment and sporting events)
52217	13140	Retailer	52304	42110	Agent, ticket: entertainment and sporting events
52217	13140	Retailer, internet	52304	42110	Assistant, sales: checkout
52217	13140	Retailer, online			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
52304	42110	Assistant, shop: checkout			<b>salespersons</b>
52304	42110	Attendant, checkout	52431	91130	Door to door salesperson, distribution (retail)
52304	42110	Attendant, gas station: cashier	52431	91130	Rounds man, distribution (retail)
52304	42110	Attendant, service station: cashier	52431	91130	Sales representative, distribution (retail)
52304	42110	Attendant, service station: console	52432	91130	Canvasser, door-to-door
52305	42110	Cashier, booking-office	52432	91130	Consultant, party plan
52305	42110	Cashier, box-office	52432	91130	Consultant, sales: door- to-door
52305	42110	Cashier, cash desk	52433	91130	Distributor, party plan
52305	42110	Cashier, check-out: self- service store	52433	91130	Distributor, selling door- to-door
52305	42110	Cashier, office	52434	91130	Host, party plan
52305	42110	Cashier, restaurant	52434	91130	Hostess, party plan
52305	42110	Cashier, service station	52435	91130	Salesperson, direct: door-to-door
52305	42110	Cashier, store	52435	91130	Salesperson, party plan
52305	42110	Cashier, supermarket			
52306	42110	Collector, toll	<b>5244</b>		<b>Contact centre salespersons</b>
52307	42110	Operator, checkout	52441	91130	Telemarketer
52307	42110	Operator, service station console	52441	91130	Telemarketing salesperson
<b>5241</b>		<b>Fashion and other models</b>	52442	91130	Call centre salesperson
52411	52100	Mannequin/ Model, fashion	52442	9113	Customer contact centre salesperson
52412	52101	Model, advertising	52443	91130	Consultant, sales: outbound calls
52413	52102	Model, artist's	52443	91130	Consultant, sales: telemarketing
52414	52100	Model, clothing display	52443	91130	Consultant, telesales: cold calling
<b>5242</b>		<b>Sales demonstrators</b>	52443	91130	Consultant, telesales: outbound calls
52421	52202	Demonstrator(sale)	52444	91130	Manager, sales team: call centre
52422	52200	Sales merchandiser	52444	91130	Manager, sales: call centre
52423	52200	Merchandiser, demonstrating	52445	91130	Operator, call centre: cold calling
52424	52200	Merchandiser, sales			
<b>5243</b>		<b>Door to door</b>			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
52445	91130	Operator, call centre: outbound calls	<b>5249</b>		<b>Sales workers not elsewhere classified(n.e.c)</b>
52445	91130	Operator, telephone: canvassing			
52445	91130	Operator, telephone: telemarketing	52491	52200	Sales workers, n.e.c
52446	91130	Representative, telephone: canvassing for donations	52492	52200	Assistant, sales: car hire
52446	91130	Salesperson, call centre	52492	52200	Assistant, sales: rental
52446	91130	Salesperson, canvassing on telephone	52493	52200	Consultant, sales: rental
52446	91130	Salesperson, internet	52493	52200	Salesperson, car hire
52446	91130	Salesperson, telemarketing	52493	52200	Salesperson, rental
52446	91130	Salesperson, telephone	52493	52200	Salesperson, video rental
52447	91130	Seller, E-bay	<b>5311</b>		<b>Child care workers</b>
52448	91130	Trader, E-bay	53111	51310	Ayah
			53111	51310	Nanny
<b>5245</b>		<b>Service station attendants</b>	53112	51312	Nurse maid
52451	52203	Attendant (petrol pump/CNG station)	53113	51310	Assistant, day care: children
52452	52203	Attendant, service station (automobiles)	53113	51310	Babysitter
52453	52200	Attendant, driveway	53113	51310	Carer, child
52454	52200	Attendant, marina	53114	51310	Governess, children
<b>5246</b>		<b>Food service counter attendants</b>	53115	51310	Sitter, baby
52461	52201	Cafeteria counter attendant	53116	51310	Worker, child care
52461	52201	Counterman	53116	51310	Worker, family day care
52462	52200	Attendant, bar: food service	53116	51310	Worker, out of school hours care
52462	52200	Attendant, canteen: food service	<b>5312</b>		<b>Teachers' aides</b>
52462	52200	Attendant, counter: food service	53121	51311	Attendant (schoolchildren)
52462	52200	Attendant, salad bar	53122	51310	Pre-school teacher assistant
52463	52200	Salesperson, kiosk: food service	53123	51310	Aide, pre-school
52463	52200	Salesperson, market: food service	53123	51310	Aide, teacher's
			53124	51310	Assistant, teacher's



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
53125	51310	Helper, pre-school	53225	51330	Attendant, midwifery: home birth
53125	51310	Helper, teacher's	53225	51330	Attendant, nursing: home
53126	51310	Invigilator	53226	51330	Carer, home: aged or disabled persons
<b>5321</b>		<b>Health care assistants</b>	53226	51330	Carer, respite
53211	51322	Attendant (hospital/clinic)	53226	51330	Companion, aged care
53212	51330	Aid, midwife	53226	51330	Companion, disabled
53213	51320	Aid, psychiatric	53227	51330	Helper, aged care
53214	51320	Aide, nursing: clinic	53227	51330	Helper, companion
53214	51320	Assistant, birth: clinic or hospital	53227	51330	Helper, home: caring for aged or infirm
53214	51320	Assistant, midwifery: clinic or hospital	53228	51330	Worker, home care
53214	51320	Assistant, patient care	53228	51330	Worker, home support
53215	51320	Attendant, birth: clinic or hospital	53228	51330	Worker, personal care: home
53215	51320	Attendant, midwifery: clinic or hospital	53228	51330	Worker, respite care
53215	51320	Attendant, nursing: except home	<b>5329</b>		<b>Personal care workers in health services not elsewhere classified</b>
<b>5322</b>		<b>Home-based personal care workers</b>	53291	51320	Aid/Attendant (dental)
53221	51330	Attendant (home)	53292	51390	Aid, pharmacy
53221	51330	Nursing aid(home)	53293	51390	Attendant, ambulance
53222	51330	Home birth assistant	53294	51323	Orderly
53223	51330	Khadim	53295	51390	Aide, sterilization
53223	51330	Personal care provider	53296	51320	Assistant, medical imaging
53224	51330	Aide, home care	53297	51320	Attendant, first aid
53224	51330	Assistant, birth: home	53297	51320	Attendant, ward
53224	51330	Assistant, day care: aged or disabled	53298	51320	Phlebotomist
53224	51330	Assistant, homecare: aged or disabled	53298	51320	Wards man
53224	51330	Assistant, residential care: aged or disabled	<b>5411</b>		<b>Fire-fighters</b>
53224	51330	Assistant, respite care	54111	51610	Fire sergeant
			54111	51610	Fire-fighter



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
54111	51610	Fireman	54132	51630	Matron (jail/ prison)
54112	51610	Fire-fighter (aircraft accidents)	54132	51630	Warden(jail/ prison)
54113	51610	Fire-fighter (forest)	54133	51630	Officer, corrective services: guard
54113	51610	Lookout man (forest fire)	<b>5414</b>		<b>Security guards</b>
54113	51610	Patrolman (forest fire)	54141	51690	Guard (art gallery/museum/ studio/ plant protection (industrial))
54114	51611	Watchman, fire			
54115	51610	Fireman, aircraft accidents	54141	51690	Guard (security)
54115	51610	Fireman, fighting fires	54142	51690	Incharge, (security/ watch and ward)
54115	51610	Fireman, forest	54142	51690	Inspector(security)
54115	51610	Firewoman, aircraft accidents	54142	51690	Officer (security guard)
54115	51610	Firewoman, fighting fires	54142	51690	Sergeant, (security)
54115	51610	Firewoman, forest	54142	51690	Supervisor (gate/yard)
54115	51610	Salvage man, fire	54143	51690	Patrolman (security)
<b>5412</b>		<b>Police officers</b>	54143	51690	Watch and ward
54121	51620	Agent (traffic)	54144	51692	Bodyguard
54121	51620	Constable	54145	91520	Concierge (hotel desk)
54121	51620	Hawaldar	54145	91520	Doorkeeper
54121	51620	Patrolman (police/highway)	54145	91520	Watchman
54121	51620	Policewoman	54146	91520	Watchman (railways)
54122	51621	Police officer (traffic)	54147	91523	Barkandaz
54123	51622	Guard, police force	54147	91523	Keeper ,gate
54124	51620	Officer, police: patrol	54147	91523	Munshi gate
54124	51621	Police officer	54147	91523	Officer ,plant protection(industrial)
54124	51620	Officer, police: sergeant	54147	91523	Watchman (night)
54124	51623	Police officer (harbor/ river/ railway)	54148	91520	Bouncer
54125	51620	Sergeant, police	54148	91520	Concierge, hotel
<b>5413</b>		<b>Prison guards</b>	54148	51690	Consultant, security
54131	51630	Guard (prison)	54148	51690	Specialist, security (except computer)
54132	51630	Gaoler (jail/ prison)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>5419</b>		<b>Protective services workers not elsewhere classified</b>	61111	61110	Farmer, grain( market )
54191	51693	Coastguard	61111	61110	Farmer, groundnut( market )
54191	51693	Patrolman (beach)	61111	61110	Farmer, maize( market )
54192	51693	Lifeguard	61111	61110	Farmer, rice(market)
54193	51694	Warden, traffic	61111	61110	Farmer, cotton( market )
54194	51695	fishery assistant)	61111	61110	Farmer, wheat( market )
54194	51695	Inspector (game/wild life/ bird sanctuary	61112	61110	Farmer / Grower (vegetable) (market)
54194	51695	Warden, fishery assistant	61113	61111	Farm worker, skilled (cotton/ wheat/ sugarcane/ rice,/cereal./grain/ maize/corn) (market)
54195	51690	Worker (protective service)	61113	61110	Worker, farm: skilled (field crops) (market)
54196	51695	Watcher (fishery/ game)	61113	61110	Worker, farm: skilled (flax) (market)
54197	51690	Attendant, pool	61113	61110	Worker, farm: skilled (groundnut) (market)
54197	51690	Attendant, swimming pool	61113	61110	Worker, farm: skilled (irrigation)
54197	51690	Guard, beach	61113	61110	Worker, farm: skilled (jute) (market)
54197	51690	Guard, crossing	61113	61110	Worker, farm: skilled (potato) (market)
54197	51690	Lifesaver, surf	61113	61110	Worker, farm: skilled (sugar-beet) (market)
<b>54198</b>	<b>51690</b>	<b>Officer, animal control</b>	61113	61110	Worker, plantation: skilled (cotton) (market)
<b>6111</b>		<b>Field crop and vegetable growers</b>	61113	61110	Worker, plantation: skilled (cotton) (market)
61111	61110	Farmer/grower, alfalfa(market)	61114	61111	Farm worker, skilled (vegetable) (market)
61111	61110	Farmer/grower, crop: field crops (market)	61115	61111	Irrigation worker, skilled(market)
61111	61110	Farmer/grower, flax(market)	61116	13110	General manager, agriculture/farm(market)
61111	61110	Farmer /grower, potato(market)	61117	13111	Superintendent (farm) (market)
61111	61110	Farmer/grower , soya-bean(market)	61117	13111	Supervisor(farm) (market)
61111	61110	Farmer/grower , sugar-beet(market)	61118	61110	Cropper(market) / Grower
61111	61110	Farmer /grower, tobacco(market)	61118	61110	Field man(market)
61111	61110	Farmer, cereal( market )	61118	61110	Planter, cotton(market)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
61118	61110	Planter, sugar-cane(market)	61123	61124	Tapper (fruit tree) (market)
61118	61110	Planter, tobacco(market)	61124	61120	Grafter fruit tree(market)
<b>6112</b>		<b>Tree and shrub crop growers</b>	61124	61120	Grafter, shrubs(market)
61121	61120	Farmer/ Grower, coconut(market)	61125	22130	Arboriculturist (market)
61121	61120	Farmer/ Grower, coffee(market)	61125	22130	Olericulturist(market)
61121	61120	Farmer / Grower , copra(market)	61125	61120	Planter, copra(market)
61121	61120	Farmer / Grower, rubber(market)	61125	61120	Planter, tea(market)
61121	61120	Farmer/ Grower, vineyard(market)	61125	61120	Pruner, fruit trees(market)
61121	61120	Farmer, / Grower viniculture (market)	61125	61120	Pruner, shrub: crops(market)
61121	61121	Farmer/ Grower (Shrub crop, tree crop, fruit, tea, nut, orchard, cocoa, hop ) (market)	61126	61120	Tapper, maple: syrup(market)
61121	61120	Grower, grape(market)	61126	61120	Tapper, pine: resin(market)
61121	61120	Grower, vine(market)	61126	61120	Tapper, rubber(market)
61121	61120	Grower, wine(market)	61126	61120	Tapper, toddy(market)
61122	61120	Worker, farm: skilled (coffee) (market)	61127	61120	Viniculturist (market)
61122	61120	Worker, farm: skilled (grove) (market)	61127	61120	Winegrower(market)
61122	61120	Worker, farm: skilled (rubber) (market)	<b>6113</b>		<b>Gardeners, horticultural and nursery growers</b>
61122	61120	Worker, farm: skilled (vineyard)	61131	13110	General-manager (nursery) (market)
61122	61120	Worker, plantation: skilled (rubber) (market)	61132	61131	Farmer/ Grower (nursery, bulb, seed, mushroom, spice, carnation, market)
61122	61120	Worker, plantation: skilled (shrub crop) (market)	61132	61130	Grower, flower(market)
61122	61120	Worker, plantation: skilled (tea) (market)	61132	61130	Grower, horticultural(market)
61122	61120	Worker, plantation: skilled (tea) (market)	61132	61130	Grower, osier(market)
61122	61120	Farm worker tree crop, fruit, nut orchard cocoa	61132	61130	Grower, reed(market)
61123	61124	Budder-grafter(market)	61132	61130	Grower, rose(market)
61123	61124	Pruner and trimmer(market)	61132	61130	Grower, seeds: nursery(market)
			61132	61130	Grower, spices: nursery(market)
			61132	61130	Grower, tulip(market)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
61132	61130	Grower, vegetables: nursery (market)	<b>6121</b>		<b>Livestock and dairy producers</b>
61133	61130	Gardener, landscape(market)	61211	61210	Farmer, dairy(market)
61133	61130	Gardner (market, greenhouse, park)	61212	13111	Manager ( dairy farm) (market)
61133	61130	<b>Gardner greengardener</b>	61212	13111	Superintendent ( dairy farm) (market)
61133	61130	Greenkeeper(market)	61213	61211	Farmer/Breeder (cattle, grazier, horses, livestock, sheep, dog, fur/pelt/cat), : market production
61133	61130	Groundsman(market)	61213	61290	Breeder, reindeer(market)
61133	61130	Keeper, green(market)	61213	61210	Breeder, stud(market)
61133	61130	Mali (market, greenhouse, park)	61213	92110	Dairymaid(market)
61134	61131	Nurseryman(market)	61213	92110	Dairyman(market)
61134	61131	Proprietor (working) (market)	61213	92110	Drover(market)
61134	61131	Supervisor (nursery) (market)	61213	61210	Farmer, astrakhan
61135	61133	Farm worker skilled (nursery, green house) (market)	61213	61211	Shepherd(market)
61135	61130	Worker, farm: skilled (mushroom) (market)	61213	92111	Stockman (livestock) (market)
61135	61130	Worker, greenhouse: skilled (market)	61213	92110	Stockman, beef cattle(market) (market)
61135	61130	Worker, market gardening: skilled	61213	92110	Stockman, sheep(market)
61136	22130	Floriculturist(market)	61213	92110	Stockwoman, beef cattle(market)
61136	61133	Ground keeper(market)	61213	92110	Stockwoman, livestock(market)
61136	61134	Horticultural worker, skilled(market)	61213	92110	Stockwoman, sheep(market)
61136	22130	Horticulturist(market)	61214	61212	Farm worker, skilled (cattle, livestock) (market)
61137	61130	Contractor, gardening(market)	61214	61210	Farmer, cattle: market
61137	61130	Contractor, landscaping(market)	61214	61210	Farmer, cowherd: market
61137	61130	Cultivator, mushroom(market)	61214	61210	Farmer, fur: domestic animals(market)
<b>6114</b>		<b>Mixed crop growers</b>	61214	61210	Farmer, goat:, market
61141	61140	Farmer/grower, mixed crops(market)	61214	61210	Farmer, horse: breeding(market)
61142	61141	Farm worker, skilled (mixed crop) (market)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
61214	61210	Farmer, horse: raising(market)	61218	61210	Worker, farm: skilled (pig) (market)
61214	61210	Farmer, livestock: market production	61218	61210	Worker, farm: skilled (sheep) (market)
61214	61210	Farmer, milk(market)	61219	61210	Farm worker, skilled(mixed-animal husbandry) (market)n.e.c
61214	61240	Farmer, mixed-animal: market production	<b>6122</b>		<b>Poultry producers</b>
61214	61210	Farmer, pig: market production	61221	13110	General manager (poultry) (market)
61214	61210	Farmer, ranch(market)	61222	61220	Breeder, (poultry/ egg production) (market)
61214	61210	Farmer, stud(market)	61223	61220	Farmer (duck/goose/turkey/(market))
61214	61210	Goatherd(market)	61223	61220	Farmer, chicken(market)
61214	92110	Hand, farm: milch(market)	61223	61220	Farmer, egg production(market)
61214	92110	Hand, farm: milking(market)	61223	61220	Farmer, poultry(market)
61214	92110	Hand, ranch(market)	61224	61220	Proprietor (working) (poultry) (market)
61214	92110	Milker(market)	61225	61221	Farm worker, skilled (poultry) (market)
61214	92110	Milkmaid(market)	61226	61221	Hatcher-breeder, poultry(market)
61214	92110	Pastoralist(market)	61227	61221	Hatchery worker, skilled (poultry) (market)
61214	61210	Producer, animals(market)	61228	61220	Caponizer(market)
61214	61210	Raiser, sheep(market)	61228	61220	Debeaker, poultry(market)
61214	61210	Rancher(market)	61228	61220	Operator, incubator: farm(market)
61215	61212	Pelter (farm) (market)	61228	61221	Operator ,incubator(market)
61215	61212	Rancher (cattle)/ Raise (camel) market)	61228	61220	Sexer, chicken (market)
61216	61212	Woolgrower/ <b>Shearer</b> <b>sheep</b> (market)	61228	61220	Tender, poultry(market)
61217	61214	Kennel worker, skilled(market)	<b>6123</b>		<b>Apiarists and sericulturists</b>
61218	61210	Worker, farm: skilled (cattle) (market)	61231	61230	Apiarist(market)
61218	61210	Worker, farm: skilled (dairy) (market)	61231	61230	Farmer (apiary, beekeeping) (market)
61218	61210	Worker, farm: skilled (domestic fur-bearing animals) (market)	61232	61231	Farmer (sericulture, silkworm raising) (market)
61218	61210	Worker, farm: skilled (livestock) (market)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
61233	61230	Seri culturist(market)	61301	61300	Farmer, livestock and crops(market)
61233	61230	Beekeeper(market)	61301	61300	Farmer, mixed farming(market)
61233	61232	Skilled worker (Apiary, beekeeping, Seri cultural) (market)	61301	61300	Farmer, mixed: market production
<b>6129</b>		<b>Animal producers not elsewhere classified</b>	61302	61301	Farm worker, skilled (mixed farming) (market)
61291	61290	Farmer, fur (non-domesticated animals) (market)	61302	61300	Hand, farm: skilled (mixed livestock and crops) (market)
61292	61291	Farmer(laboratory animal) (market)	61302	61300	Worker, farm: skilled (mixed livestock and crops) (market)
61293	61292	Breeder (bird, mammal,ostrich, reptile etc) (market)	<b>6210</b>		<b>Forestry and related workers</b>
61293	61290	Breeder, deer(market)	62101	13112	General manager (forestry) (market)
61293	61290	Breeder, game bird(market)	62102	61410	Assembler (raft) (market)
61293	61290	Breeder, lion(market)	62102	61410	Maker (log-raft) (market)
61293	61290	Breeder, snail(market)	62102	61410	Marker (tree/timber) (market)
61293	61292	Farmer(bird, mammal,ostrich, reptile etc) (market)	62103	61410	Cross-cutter, (logging, sleeper, timber (forestry), pole and pile)
61293	61290	Farmer, crocodile(market)	62103	61410	Cutter(railway tie)
61293	61290	Farmer, kangaroo(market)	62103	61410	Woodcutter, forest(market)
61294	61294	Farm worker, skilled (non-domesticated fur-bearing animals) (market)	62104	61410	Cruiser (timber) (market)
61294	61290	Farmer, non-domesticated animals(market)	62104	61410	Driver (raft, logging) (market)
61294	61210	Farmer, pelt: non-domesticated animals(market)	62104	61410	Driver (river) (market)
61295	61295	Laboratory worker, skilled (animals)	62104	61410	Operator (wood harvesting machine) (market)
61295	61290	Raiser, ostrich(market)	62105	61410	Afforestation worker(market)
61296	61290	Worker, farm: skilled (ostrich) (market)	62105	61410	Forester(market)
<b>6130</b>		<b>Mixed crop and animal producers</b>	62105	61410	Planter (forestry) (market)
			62105	61410	Rider (timber) (market)
			62105	61410	Woodman(market)
			62106	61411	Bucker(logging(market)



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
62106	61411	Climber (high)/ Jogging(market)	62214	61510	Technician, fishing(market)
62106	61411	Feller (logging) (market)	62215	61511	Farm worker, skilled (fish/ oyster/ seafood/ pisciculture) (market)
62106	61411	Logger(market)	62216	61511	Hatchery worker, skilled (fish) (market)
62106	61411	Scaler (log) (market)	62217	61511	Oyster farm worker(market)
62106	61411	Topper (logging) (market)	62218	13110	Manager, fish farm(market)
62107	61412	Consrvator (forest) (market)	<b>6222</b>		<b>Inland and coastal waters fishery workers</b>
62107	61412	Forest officer(market)	62221	13114	General manger (fishery) (market)
62107	61412	Patrolman (forest) (market)	62222	61520	Fisherman, coastal waters(market)
62107	61412	Ranger(market)	62223	61520	Sponge hooker(market)
62107	61412	Supervisor(forest) (market)	62224	61520	Fisherman (inland waters) (market)
62108	61410	Burner, charcoal(market)	62225	61522	Fishery worker, skilled (coastal waters) (market)
62108	61410	Climber, high: logging(market)	62226	61523	Fishery worker, skilled (inland) (market)
62108	61410	Climber, logging(market)	62227	61520	Captain, fishing: coastal waters(market)
62108	61410	Cutter, pole and pile(market)	62228	61520	Skipper, coastal fishery (market)
62108	61410	Cutter, wood: forest(market)	<b>6223</b>		<b>Deep-sea fishery workers</b>
62108	61420	Forestry worker, skilled (charcoal burning/ wood distillation (traditional techniques) (market)	62231	61530	Fisherman, deep- sea(market)
62108	61410	Lumberjack(market)	62232	61531	Crewman, (market)
62108	61410	Pruner, forestry(market)	62232	61531	Drifter(market)
62108	61410	Pruner, tree: forestry(market)	62232	61531	Trawler(market)
62108	61410	Pruner-trimmer, forestry(market)	62233	61531	Fishery worker, skilled (deep-sea) (market)
62108	61410	Stripper, cork bark(market)	62234	61530	Captain, fishing: deep- sea(market)
62108	61410	Trimmer, tree: forestry(market)	62235	61530	Skipper, trawler(market)
<b>6221</b>		<b>Aquaculture workers</b>	<b>6224</b>		<b>Hunters and trappers</b>
62211	61510	Cultivator(algae/ pearl) (market)	62241	61542	Hunter(market)
62212	61510	Farmer(fish/ oyster/ seafood) (market)			
62213	61510	Hatcher, fish(market)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
62242	61540	Crewman(whaling vessel) (market)	63201	62100	Subsistence livestock farmer
62242	61540	Flenser(market)	63202	62100	Livestock worker, skilled (subsistence livestock farming)
62242	61540	Harpooner(market)	63203	62100	Cowherd: subsistence farming
62242	61540	Hunter (whale) (market)	63204	62100	Farmer, cattle: subsistence
62243	61540	Stripper(blubber) (market)	63204	62100	Farmer, goat: subsistence farming
62244	61541	Fisherman(market)	63204	62100	Farmer, mixed-animal: subsistence farming
62244	61541	Hunter (seal) (market)	63204	62100	Farmer, pig: subsistence farming
62245	61542	Trapper-hunter, fur(market)	63204	62100	Farmer, sheep: subsistence farming
62246	61543	Game beater(market)	63205	62100	Goatherd: subsistence farming
62247	61540	Fisher, seal(market)	63205	62100	Shepherd: subsistence farming
<b>6310</b>		<b>Subsistence crop farmers</b>	<b>6330</b>		<b>Subsistence mixed crop and livestock farmers</b>
63101	62100	Farmer, subsistence farming	63301	62100	Farmer, mixed: subsistence, crop and livestock
63102	62101	Farm worker, skilled (subsistence farming)	63302	62100	Worker, farm: skilled (subsistence farming)
63103	62100	Farmer, corn: subsistence farming	<b>6340</b>		<b>Subsistence fishers, hunters, trappers and gatherers</b>
63103	62100	Farmer, field: crops (subsistence farming)	63401	62100	Hunter-gatherer
63103	62100	Farmer, grain: subsistence farming	63402	62100	Subsistence collector
63103	62100	Farmer, groundnut: subsistence farming	63403	62100	Diver, subsistence
63103	62100	Farmer, maize: subsistence farming	63404	62100	Fisher, subsistence
63103	62100	Farmer, mixed crops subsistence farming	63404	62100	Fisherman, subsistence
63103	62100	Farmer, rice: subsistence farming	63404	62100	Fisherwoman, subsistence
63103	62100	Farmer, wheat: subsistence farming	63405	62100	Gatherer, subsistence
63104	62100	Farmer, field: vegetable (subsistence farming)	63406	62100	Trapper, subsistence
63104	62100	Farmer, vegetable: subsistence farming	<b>7111</b>		<b>House builders</b>
63104	62100	Grower, vegetable: subsistence	71111	71210	Builder, house
63105	62100	Gardener, subsistence			
<b>6320</b>		<b>Subsistence livestock farmers</b>			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		(traditional materials)	71132	71131	Engraver (stone)
71111	71210	Erector, mud wall	71132	71131	Grader (stone)
71112	71290	Builder, house (non-traditional materials)	71132	71131	Planer (stone)
71113	71290	Erector	71132	71134	Turner (stone)
71113	71290	Fixer prefabricated buildings	71133	71132	Carver-setter, monument
71114	71292	Repairer, building	71133	71132	Mason (monument)
<b>7112</b>		<b>Bricklayers and related workers</b>	71134	71134	Finisher (stone)
71121	71220	Blocklayer	71134	71134	Grinder (stone/slate)
71121	71220	Bricklayer (construction / firebrick (kiln/oven)/ chimney/ furnace lining)	71135	71134	Driller stone
71121	71220	Bricklayer, refractory	71135	71134	Sandblaster
71122	71221	Fixer	71135	71134	Sawyer
71122	71221	Mason	71136	71134	Stonemason (construction/paving)
71122	71221	Mistry	71136	71134	Stoneworker (layout)
71122	71221	Paviour	71137	71220	Blaster, sand:
71123	71220	Builder, chimney	71138	71220	stonecutting
71124	71220	Layer, block	71138	71220	Setter-operator, lathe:
71124	71220	Layer, brick	71138	71220	stone
71124	71220	Layer, firebrick	71138	71130	Shotblaster/ stone-
71125	71220	Tuck pointer	<b>7114</b>		cutting
<b>7113</b>		<b>Stonemasons, stone cutters, splitters and carvers</b>			Worker, stonework:
71131	71130	Cutter (stone)			layout
71131	71220	Cutter, granite			<b>Concrete placers, concrete finishers and related workers</b>
71131	71220	Mason, stone	71141	71230	Concreter, reinforced
71131	71130	Splitter (stone)	71142	71233	Caster
71132	71131	Carver (stone)	71142	71233	Curer, Concrete
71132	71131	Dresser (stone)	71142	71230	Fabricator, concrete
			71142	71230	stone
			71142	71230	Finisher, Concrete/cement
			71142	71233	Mixer, Concrete
			71142	71230	Placer, Concrete
			71142	71233	Shutterer (concrete)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
71143	71232	Bender, steel (reinforced concrete)	71158	71240	Shipwright, wood
71143	71232	Fixer, steel (reinforced concrete)	71158	71240	Shopfitter
71143	71232	Setter, steel (reinforced concrete)	<b>7119</b>		<b>Building frame and related trades workers not elsewhere classified</b>
71144	71235	Worker, Terrazzo			
71145	71230	Worker, iron: concrete (reinforcement)	71191	71290	Bracer(construction)
<b>7115</b>		<b>Carpenters and joiners</b>	71191	71290	Rigger (scaffolding)
71151	71240	Carpenter (bridge/ construction/ maintenance/ mine )	71191	71290	Scaffolder, scaffolding
71151	71240	Joiner (construction)	71192	71290	Shorer, construction
71152	71240	Artificer	71193	71290	Steeplejack
71152	71240	Carpenter(stage/theatre)	71194	71291	Worker, timbering(construction)
71153	71240	Carpenter(wharf/ ship's)	71195	71292	Repairer(building/ chimney)
71154	71242	Builder(aircraft body)/ barge/ boat(wood)/shipwright (wood)	71195	71292	Worker, maintenance(building)
71155	71242	Maker, mast and spar(wood)	71196	71293	Worker(demolition)
71156	71240	Carpenter	71196	71293	Wrecker(building)
71156	71240	Carpenter, finish	71198	71290	Assembler, prefabricated building
71156	71240	Carpenter-joiner	71198	71290	Assembler, prefabricated houses
71156	71242	Joiner, (aircraft,ship,banch)	71198	71295	Erector, billboard
71156	71240	Tarkhan	71198	71290	Erector, prefabricated buildings
71157	71243	Fixer(wood)	71198	71290	Installer, pool
71157	71242	Foreman, carpenter(ship &boat)	<b>7121</b>		<b>Roofers</b>
71158	71240	Boatbuilder, wood	71211	71310	Roofer(asphalt/ composite materials)
71158	71240	Fitter, shop	71212	71310	Roofer(metal)
71158	71240	Framer	71213	71310	Roofer (slate/ tile)
71158	71240	Installer, door	71214	71310	Roofer (wood-shingle)
71158	71240	Installer, window: frame	71215	71311	Thatcher
71158	71240	Joiner	71216	71310	Fixer, roof
			71217	71310	Tiler, roof

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>7122</b>		<b>Floor layers and tile setters</b>	71245	71340	Installer, sound-proofing
71221	71320	Layer (floor/wall)	71246	71340	Worker, insulation
71221	71320	Setter (floor/wall)	71246	71340	Worker, insulation: sound-proofing
71221	71320	Tiler (floor/wall)	<b>7125</b>		<b>Glaziers</b>
71222	71321	Cutter-setter (mosaic/ marble/ rubble stone)	71251	71350	Fitter, (plate-glass)
71223	71322	Layer, floor (parquetry/ wood block)	71251	71350	Fixer, (plate-glass/ lead-Light)
71224	71320	Layer, carpet	71252	71350	Glazier (any type of glass)
71224	71320	Layer, composition tile	71253	71350	Installer, glass (vehicles)
71225	71320	Setter, marble	71254	71350	Fixer, glass (buildings)
71225	71320	Setter, tile	71254	71350	Setter glass (buildings)
71226	71320	Worker, parquetry	71255	71351	Setter, artistic (glass)
<b>7123</b>		<b>Plasterers</b>	71256	71350	Autoglazier
71231	71330	Lather (plastering)	71257	71350	Installer, glazing
71231	71330	Solid Plasterer	71257	71350	Installer, window: glazing
71232	71330	Plasterer(ornamental/ fibrous sheet)	71258	71350	Repairer, windscreen
71233	71331	Mason (stucco)	<b>7126</b>		<b>Plumbers and pipe fitters</b>
71233	71330	Plasterer	71261	71360	Foreman(plumber)
71234	71330	Fixer, plasterboard	71261	71360	Plumber (any type)
71235	71330	Installer, plasterboard	71262	71360	Foreman, pipelines
71236	71330	Plasterer, plasterboard	71263	71361	Pipe-fitter (aircraft/ marine)
<b>7124</b>		<b>Insulation workers</b>	71264	71361	Pipe fitter(gas/water/steam/ventilation/sewerage) (except electrical)
71241	71340	Insulator worker(acoustical)	71265	71362	Back-up man
71242	71340	Insulator worker(building)	71265	71362	Clamp man (pipeline construction)
71243	71341	Insulator worker((boiler and pipe)	71266	71362	Digger/ Sinker (well)
71243	71341	Lagger(boiler and pipe)	71267	71294	Layer, drain
71244	71341	Insulator worker (refrigeration and air-conditioning equipment)	71267	71362	Layer-jointer(mains pipes)
71245	71340	Installer, insulation	71267	71362	Worker(pipe1ine)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
71268	71360	Fitter, duct	71318	71410	Painter, brush: construction
71268	71360	Fixer, duct	71318	71410	Painter, motion picture set
71268	71360	Gasfitter	71318	71410	Painter, outside: construction
71268	71360	Installer, drain	71318	71410	Painter, stage scenery
71268	71360	Installer, duct	71318	71410	Paperhanger
71268	71360	Installer, septic tank	71318	71410	Spray-painter, construction
71268	71360	Joiner, pipe-laying	<b>7132</b>		<b>Spray painters and varnishers</b>
71268	71360	Technician, drain	71321	71420	Lacquering (vehicle/metal)
<b>7127</b>		<b>Air conditioning and refrigeration mechanics</b>	71321	71420	Master (varnish)
71271	72333	Mechanic (air conditioning equipment)	71321	71420	Varnisher, (vehicle/metal)
71272	72333	Mechanic (refrigeration)	71322	71422	Japanner (painter)
71273	72330	Erector, refrigeration and air conditioning equipment	71322	71422	Painter, Ferro
71274	72330	Installer, refrigeration and air conditioning equipment	71322	71422	Enameller (Ferro)
<b>7131</b>		<b>Painters and related workers</b>	71323	71422	Painter, automobile (repair)
71311	71410	Painter(building/house/construction)	71324	71422	Painter, hand-dip (except glass and ceramics)
71311	71410	Whitewasher	71325	71422	Painter, (manufacturing)
71312	71412	Painter(structural steel)	71325	71422	Retoucher (manufacturing)
71313	71413	Painter railway coaches and wagons	71326	71423	Painter (spray), metal
71314	71414	Painter(set/stage)	71327	71424	Marker, highway lane
71315	71414	Painter-decorator buildings (wall carpeting/wall covering/wallpapering)	71327	71424	Painter, bursh / spray(construction)
71316	71414	Decorator(ship interiors/ship's hull)	71328	71420	Sprayer, metal
71316	71414	Painter(ship interiors/ship's hull)	71328	71420	Spray-painter, manufactured articles
71317	71414	Hanger, wallpaper	<b>7133</b>		<b>Building structure cleaners</b>
71318	71410	Mixer, paint	71331	71430	Chimney-sweep
			71331	71430	Cleaner/ Sweep(chimney/flue)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
71332	71431	Exterminator, rodent	72121	72120	Foreman, welding (general/rail road)
71333	71432	Sandblaster (building exteriors)	72121	72120	Welder (acetylene)
<b>7211</b>		<b>Metal molders and core makers</b>	72121	72120	Welder,
72111	72110	Fettler, metal	72122	72121	Brazier (any type)
72111	72110	Fitter, box (moulding)	72123	72122	Burner (lead)
72111	72110	Foreman, (moulding)	72123	72122	Flame cutter
72111	72110	Gauge man(moulding)	72123	72122	Foreman (lead burner)
72111	72110	Moulder(metal castings, bench)	72124	72123	Setter-operator, soldering (metal)
72112	72110	Machine-operator, rod casting (continuous(non- ferrous metal boring))	72124	72123	Solderer (any type)
72113	72110	Machine man, sand conditioning	72124	72120	Welder, machine(electric arc)
72114	72111	Moulder, floor and pit(metal casting)	72125	72120	Cutter, flame
72115	72111	Operator(rambler)	72126	82110	Operator, machine: welding (metal)
72115	72111	Picker	72126	82110	Operator, machine: wire goods production
72115	72111	Poker man	72127	72120	Setter-operator, soldering: jewellery
72115	72111	Rammer	72127	72120	Solderer
72116	72111	Caster(metal)	<b>7213</b>		<b>Sheet-metal workers</b>
72116	72111	Pourer(metal)	72131	72130	Cutter, sheet
72116	72111	Tapper man, (metal casting)	72131	72130	Foreman, sheet-metal
72116	72111	Teemer (metal casting)	72131	72130	Marker, sheet-metal
72117	72111	Assistant, tapper(metal casting)	72131	72130	Worker sheet- metal(aircraft/ furniture/ household articles/ instruments/ ornamental/ vehicle
72117	72112	Core maker, metal	72132	72131	Foreman, (boiler maker
72118	82110	Operator, machine: core-blowing	72132	72131	Plater, (boiler maker
72118	82110	Operator, machine: core making (metal)	72132	72131	Repairman (boiler maker)
72118	82110	Operator, machine: core making (tube)	72133	72131	Smith(boiler/ copper/ tin)
<b>7212</b>		<b>Welders and flame cutters</b>	72134	72132	Beater, (sheetmetal/vehicle/aircr aft)
72121	72120	Boiler making/ electric/ gas/ thermite / any type)	72134	72130	Bodybuilder, vehicle: metal

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72134	72132	Denter (sheetmetal/vehicle/aircraft)	72152	72151	Cutter, thread
72135	72130	Boilermaker	72152	72151	Splicer, (thread/ cable and rope)
72135	72130	Builder, body: vehicle (metal)	72153	72152	Worker, cable (bridge)
72135	72130	Maker, boiler	72154	72153	Spinner/ Squeezer, cable/wire
72135	72130	Panel beater	72155	72150	Grip
<b>7214</b>		<b>Structural-metal preparers and erectors</b>	72156	72150	Rigger, theatrical
72141	72140	Erector(derrick/ constructional steel/ structural metal/ ship beam and frame)	72156	72150	Rigger, tower
72142	72141	Loftsman, (structural metal)	72156	72150	Rigger, Squeezer, cable/wire
72142	72141	Maker (structural metal)	72157	72150	Jugalie, rig(oil)
72143	72142	Bender, plate (metal)/ (ship frame)	72157	72150	Rigman, oil
72143	72142	Turner, plate (metal)/ (ship frame)	72157	72150	Stagehand
72144	72143	Worker, structural steel (workshop)	<b>7221</b>		<b>Blacksmiths, hammer smiths and forging press workers</b>
72145	72144	Helper(ship plater's)	72211	72210	Blacksmith
72145	72144	Shipwright(metal)	72211	72210	Farrier
72146	72145	Caulker	72211	72210	Gangue man ,railway
72146	72145	Puncher	72211	72210	Mistry, forging (steam hammer)
72146	72145	Holder up(rivets)	72211	72210	Nal bund
72146	72144	Plater, ship	72212	72211	Driver(drop-hammer )
72146	72145	Riveter, (hydraulic/ pneumatic/ portable pinch/ aircraft repairing)	72212	72211	Forge hammer, forging-press
72147	72140	Preparer, structural: metal	72212	72211	Forger
<b>7215</b>		<b>Riggers and cable splices</b>	72212	72211	Operator, (drop-hammer )
72151	72150	Rigger logging/ oil and gas well/ ski-lift/ railway cable)	72213	72212	Hammersmith, (spring/ knife/ tool/ bulldozer)
72151	72150	Rigger (aircraft/ ship / hoisting equipment (construction)	72213	72212	Smith(spring/ knife/ tool/ bulldozer)
			72214	72213	Caster, dye-casting (metal)
			72214	72213	Drawer(wire)
			72214	72213	Former, metal (manual)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72215	72213	Foreman(die casting)	72231	72230	Setter (capstan-lathe/ machine tool/ metalworking machine)
72215	72213	Foreman(wire drawer)	72232	72231	Setter/operator, (boring/ drilling/ cutting/ die- sinking) machine (metalworking)/machine tool
72215	72213	Former, pig machine (iron and steel)	72233	72231	Setter/operator, machine toor(extruding/ grinding/ honing/ lapping/ boiling/ punching/ spinning/ cutting/ wire/minting machine (metalworking)
72216	72210	Forger, drop	72234	72231	Setter-operator, machine tool operator (lathe/milling/engine- lathe/turret-lathe/ buffing/ armature production)
72217	72210	Operator, press: forging	72234	72230	Setter-operator/ machine tool operator precision- grinding machine: metal working
72217	72210	Operator, press: metal (forging)	72235	72231	Setter-operator/Machine tool operator, (planing/ reaming/ routing/ shaping/ numerical control/ toy production/ sawing)
72218	72210	Smith, anvil	72236	72232	Borer/ driller (metal)
72218	72210	Worker, forging press	72237	72233	Spinner (metal)
<b>7222</b>		<b>Toolmakers and related workers</b>	72238	72230	Driller, metal
72221	72220	Maker(jig/gauge)	72238	82110	Foreman, machine shop
72221	72220	Maker(tool and die)	72238	82110	Foreman, machine tool operator
72221	72220	Toolmaker	72238	82111	Former, metal (mechanical)
72222	72221	Maker, die (jewellery/ stamping/ wire drawing/ tap-die)	72238	82111	Header, bolt
72223	72221	Maker, template (plastics)	72238	82113	Honer, cylinder
72224	72221	Marker(metal)	72238	82111	Lathe-operator, capstan/centre (metalworking)
72224	72221	Pattern-maker (metal foundry)	72238	82111	Machine -operator, moulding/ jarring/ jolting
72224	72221	Sinker(die)/bench	72238	82110	Machine operator, toy production (metal)
72225	72222	Armourer			
72225	72222	Artificer, ordinance(firearms)			
72225	72222	Gunsmith			
72225	72222	Locksmith			
72226	72220	Finisher, die			
72226	72220	Jig maker			
72227	72220	Maker, pattern			
72227	72220	Maker, press tool			
<b>7223</b>		<b>Metal working machine tool setters and operators</b>			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72238	82111	Machine-operator, hit (metal)	72238	82111	Machine-operator, drilling (horizontal (metalworking))
72238	82111	Machine-operator minting (metal)	72238	82111	Machine-operator, drilling (metal)
72238	82111	Machine-operator , milling (metal)	72238	82111	Machine-operator, engraving (metal)
72238	82110	Machine-operator ,commutator production	72238	82111	Machine-operator, etching (metal)
72238	82110	Machine-operator ,machine tool	72238	82111	Machine-operator, flamecutting (metal)
72238	82110	Machine-operator ,shearing (metal)	72238	82111	Machine-operator, gear-cutting (metal working)
72238	82110	Machine-operator ,tool production	72238	82110	Machine-operator, grinding (machine)-tool)
72238	82111	Machine-operator Internal grinding (metal working)	72238	82111	Machine-operator, grinding (external (metal working))
72238	82112	Machine-operator, armature production	72238	82111	Machine-operator, grinding (metal)
72238	82111	Machine-operator, automatic transfer (components)	72238	82114	Machine-operator, jewellery production
72238	82111	Machine-operator, automatic transfer (metalworking)	72238	82111	Machine-operator, lapping (nictal)
72238	82111	Machine-operator, bending (metal)	72238	82111	Machine-operator, lint (metal)
72238	82113	Machine-operator, boiler production	72238	82111	Machine-operator, liotting (metal)
72238	82111	Machine-operator, boring (horizontal (metalworking))	72238	82110	Machine-operator, needle production
72238	82111	Machine-operator, boring (jig)	72238	82111	Machine-operator, nut production (metal)
72238	82111	Machine-operator, boring (metal)	72238	82110	Machine-operator, pipe production
72238	82111	Machine-operator, buffing (metal)	72238	82111	Machine-operator, planning (metal)
72238	82111	Machine-operator, burnishing (metal)	72238	82111	Machine-operator, precision grinding (metal)
72238	82111	Machine-operator, cable production	72238	82111	Machine-operator, reaming (metal)
72238	82115	Machine-operator, clock production	72238	82110	Machine-operator, rivet production
72238	82111	Machine-operator, core making (metal/tube)	72238	82110	Machine-operator, riveting
72238	82111	Machine-operator, cutting (metal electric are)	72238	82111	Machine-operator, sawing (metal)
72238	82111	Machine-operator, cutting (metal)	72238	82111	Machine-operator, screw-cutting (metal working)
			72238	82111	Machine-operator, shaping (metal)



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72238	82111	Machine-operator, sharpening (metal)	72238	82110	Operator, machine: milling (metal)
72238	82111	Machine-operator, spinning (metal)	72238	82110	Operator, machine: moulding (metal)
72238	82110	Machine-operator, sports equipment (metal)	72238	82110	Operator, machine: needle production
72238	82115	Machine-operator, watch production	72238	82110	Operator, machine: nut production (metal)
72238	82111	Machine-operator, welding (metal)	72238	82110	Operator, machine: pipe production (metal)
72238	82111	Machine-operator, wire goods production	72238	82110	Operator, machine: precision grinding (metal)
72238	82111	Machine-operator, wiring (electric)	72238	82110	Operator, machine: rivet production
72238	72230	Machinist, CNC	72238	82110	Operator, machine: riveting
72238	72230	Machinist, metal	72238	82110	Operator, machine: sawing (metal)
72238	82111	Operator, power-shear	72238	82110	Operator, machine: shaping (metal)
72238	82111	Operator, grinder (surface tools)	72238	82110	Operator, machine: shearing (metal)
72238	82110	Operator, lathe: capstan (metal working)	72238	82110	Operator, machine: spinning (metal)
72238	82110	Operator, lathe: centre (metal working)	72238	82110	Operator, machine: sports equipment (metal)
72238	82110	Operator, machine: automatic transfer (components)	72238	82110	Operator, machine: tool production
72238	82110	Operator, machine: bending (metal)	72238	82110	Operator, machine: watch production
72238	82110	Operator, machine: burnishing (metal)	72238	82110	Operator, power-shear
72238	82110	Operator, machine: cable (production)	72238	82110	Operator, press: metal (except forging)
72238	82110	Operator, machine: clock (production)	72238	82110	Operator, press: punching (metal)
72238	82110	Operator, machine: commutator (production)	72238	82110	Operator, press: stamping (metal)
72238	82110	Operator, machine: engraving (metal)	72238	82111	Operator, router (metal working)
72238	82110	Operator, machine: etching (metal)	72238	82111	Press-operator, metal (except forging)
72238	82110	Operator, machine: flamecutting (metal)	72238	82111	Press-operator, punching (metal)
72238	82110	Operator, machine: forging (metal)	72238	82111	Press-operator, stamping (metal)
72238	82110	Operator, machine: forming (metal)	<b>7224</b>		<b>Metal polishers, wheel grinders and tool sharpeners</b>
72238	82110	Operator, machine: grinding (machine-tool)			
72238	82110	Operator, machine: jewellery (production)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72241	72240	Grinder (metal)/ wheel- (metal)/ <b>Textile cardng</b> <b>machine</b>			transport
72242	72241	Filer-hand	72315	72310	Fitter, engine: motor vehicle
72242	72241	Finisher (tools/ cutting tools)	72315	72310	Fitter, tyre
72243	72241	Bluer(metal)	72316	72310	Mechanic, engine/ diesel( motor vehicle)
72243	72241	Buffer ,metal	72316	72310	Mechanic, engine: motor vehicle
72243	72241	Burnisher ,metal	72316	72310	Mechanic, garage
72244	72243	Finisher(cast metal articles)	72316	72310	Mechanic, motorized tricycle
72245	72241	Cutter(gear)	72316	72310	Mechanic, rickshaw: motorized
72245	72244	Degreaser(metal)	72316	72310	Mechanic, small engine
72245	72242	Sharpener (cutting instruments)	72316	72310	Mechanic, tuk-tuk
72246	72240	Cleaner, metal	72316	72310	Mechatronician
72246	72240	Grinder, textile carding machine	72317	72310	Fitter ,engine(motor vehicle)
72246	72240	Grinder, tool	72317	72310	Repairer, mechatronics
72246	72240	Polisher, metal	72317	72310	Repairer, moped
72247	72240	Doctor, saw	72317	72310	Repairer, motor vehicle
72247	72240	Repairer, saw	72317	72310	Repairer, tuk-tuk
72247	72240	Sharpener, knife	72318	72310	Technician, automotive brakes systems service
72247	72240	Sharpener, saw	72318	72310	Technician, mechatronics: servicing motor vehicles
72247	72240	Sharpener, tool	72318	72310	Technician, motor vehicle engine and fuel systems service
<b>7231</b>		<b>Motor vehicle mechanics and repairers</b>	72318	72310	Technician, motor vehicle mechatronics service
72311	72310	Mechanic (automobile/ motor cycle/ motor vehicle/ GD)	72318	72310	Technician, motor vehicle service
72312	72310	Mechanic (transmission(automobile))	<b>7232</b>		<b>Aircraft engine mechanics and repairers</b>
72313	72310	Mechanic (truck/bus/trolley/tractor)	72321	72320	Mechanic, aircraft (hydraulic system)
72314	72310	Tuner (vehicle engine)	72322	72320	Mechanic, aircraft (engine service)
72314	72311	Balancer(tyre)	72323	72320	Aircraft restorer
72315	72310	Fitter, diesel: road			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
72324	72320	Aeromechanic	72333	72332	Inspector, locomotive repair
72324	72320	Engineer, aircraft maintenance: airframe	72334	72333	Mechanic, engine (diesel except motor vehicle))
72324	72320	Engineer, aircraft maintenance: engines	72335	72333	Mechanic, turbine (except aircraft and marine turbines)
72324	72320	Erector, metal airframe	72336	72330	Erector-installer, agricultural machinery
72324	72320	Fitter ,engine(aircraft)	72336	72330	Erector-installer, industrial machinery
72325	72320	Fitter-assembler, airframe	72336	72330	Fitter, engine: marine
72325	72320	Mechanic, airframe	72336	72330	Fitter, engine: steam
72325	72320	Mechanic, airframe and power plant	72336	72330	Fitter, machine-tool
72325	72320	Mechanic, helicopter	72336	72330	Fitter, plant maintenance
72326	72320	Repairer, engine: aircraft	72336	72330	Fitter, stationary: engine
72327	72320	Restorer, aircraft	72336	72330	Fitter, train engine
72328	72320	Supervisor, aircraft maintenance	72336	72333	Millwright
<b>7233</b>		<b>Agricultural and industrial machinery mechanics and repairers</b>	72337	72334	Mechanic, water treatment plant
72331	72331	Fitter, earth-moving equipment/ industrial machinery )	72338	72337	Lubricator (ship)
72331	72331	Fitter, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile	72338	72335	Mechanic (boat/ship/ engine room ship)
72331	72331	Fitter, woodworking/ turbine/ weaver beam	72338	72330	Oiler and greaser
72332	72330	Mechanic, construction machinery	72338	72330	Oiler and greaser, ship
72332	72333	Mechanic, machinery (agricultural/ industrial/ metalworking/ mining/ printing/ textile	72338	72330	Repairer, construction machinery
72332	72333	Mechanic, steam engine/ plantmaintenance/ typewriter/ curing press/ packaging machine)	72338	72330	Repairer, farm machinery
72332	72333	Mechanic, woodworking/ turbine/ weaver beam/ earth-moving equipment/ petrol	72338	72330	Repairer, mining machinery
			72338	72330	Repairer, stationary engine
			72338	72330	Repairer, train engine
			72339	72334	Mechanic ,plant maintenance
			72339	72336	Mechanic, instrument
			72339	72333	Repairman ,air valve
			72339	72330	Agricultural and industrial machinery mechanics and repairers n.e.c

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>7234</b>		<b>Bicycle and related repairers</b>	73114	73110	Repairer, camera
72341	72312	Repairer, (bicycle/ pedal cycle/ wheelchair)	73114	73112	Repairer, instrument (surgical)
72341	72312	Assembler((bicycle/ pedal cycle/ wheelchair)	73114	73112	<b>Repairer orthopedic appliance</b>
72342	72313	Repairer (tyre/tube)	73114	73110	Repairer, instrument: dental
72343	72310	Mechanic, bicycle	73114	73110	Repairer, photographic equipment
72344	72310	Mechanic, perambulator	73115	73110	Adjuster, precision instrument
72344	72310	Repairer, perambulator	73115	73110	Adjuster, watch
<b>7311</b>		<b>Precision-instrument makers and repairers</b>	73115	73110	Balancer, scale
73111	73110	Fitter, precision instrument	73115	73110	Calibrator, precision instrument
73112	73110	Maker,clock/watch	73115	73110	Calibrator, weights and measures
73112	73110	Repairer, clock/watch	<b>7312</b>		<b>Musical instrument makers and tuners</b>
73112	73110	Maker( instrument (mathematical/ scientific/educational/na utical)	73121	73120	Maker, instrument (accordion/ drum/ guitar/ violin/ mouthpiece/pipe/ xylophone
73112	73110	Maker( precision/ optical/ meteorological/ barometer/ watch/balancer/ fountain pen)	73121	73120	Maker, organ/ musical (brass)/ musical (metal wind)/ musical (string)/ musical (woodwind))
73112	73113	Maker, instrument	73122	73121	Repairer, instrument (guitar / violin/ musical (percussion)/musical (string)/musical (wind))
73112	73113	Repairer( precision/ optical/ meteorological barometer/ watch/balancer/ fountain pen)	73123	73122	Fitter, musical instrument
73112	73113	Repairer,( instrument (mathematical/ scientific/ educational/nautical)	73124	73122	Tone regulator, musical instruments
73113	73110	Maker, instrument: dental	73124	73122	Tuner (accordion/piano/ organ/ musical instrument)
73113	73110	Maker, instrument: surgical	73125	73123	Cutter (woodwind reeds)
73113	73110	Maker, photographic equipment	73126	73120	Builder, organ
73113	73110	<b>Maker orthopedic appliance/ brace(orthopedic)</b>	73126	73120	Maker, key: piano
			73126	73120	Maker, sound-board: piano
			73127	73120	Repairer, instrument: brass
			73127	73120	Repairer, instrument: wind

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73128	73120	Stringer, piano	73137	73135	Repairer, jewellery
73128	73120	Voicer, organ	73138	73130	Beater, gold
<b>7313</b>		<b>Jewellery and precious-metal workers</b>	73138	73130	Hammersmith, precious-metal articles
73131	73130	Dhagey wala	73138	73130	Maker, precious-metal chain
73131	73130	Gold smith	73138	73130	Maker, precious-metal leaf
73131	73130	Jeweller	73138	73130	Mounter, jewellery
73131	73130	Lapidary	73138	73130	Pewter smith
73131	73130	Maker, (bangle/ jewellery/ precious-metal articles)	73138	73130	Setter, gem
73131	73130	Nayara (jewellery)	73138	73130	Setter, jewels
73131	73130	Smith (gold/silver/pewter)	73138	73130	Smith, hammer: precious-metal articles
73131	73130	Sunar	73138	73130	Smith, pewter
73132	73131	Carver, ornaments	<b>7314</b>		<b>Potters and related workers</b>
73132	73131	Caster, Jewellery moulds	73141	73210	Driller pottery
73132	73131	Compactor ,ornaments	73141	73210	Fettler pottery finisher
73132	73131	Engraver (ornaments/jewellery moulds)	73141	73210	Finisher
73133	73132	Cutter-polisher(gems/jewels/ diamonds/ precious metal/ crystal,electronics)	73141	73210	Kumhar
73134	73132	Drawer ,wire( precious metal)	73141	73210	Potter
73134	73132	Driller, wire (precious metal)	73141	73210	Sticker-up (pottery/ pottery spout)
73135	73133	Enameller (ornaments/ jewellery)	73142	73210	Foreman (clay preparation/ clay shop)
73135	73133	Filler ,lac	73143	73210	Foreman, press operation (manual) (brick and tile)
73135	73133	Finisher ,ornaments/ jewellery	73144	73210	Moulder (brick and tile (hand))
73135	73133	Polisher, ornaments/ jewellery	73144	73210	Presser, brick and tile (hand)
73136	73134	Melter, gold	73144	73213	Presser, clay extruding
73136	73134	Roller, precious metal	73145	73211	Burnisher( ceramics)
73136	73134	Spinner (gold/ precious metal)	73145	73211	Dipper (ceramics )
			73146	73211	Thrower ,pottery and porcelain
			73146	73211	Caster, pottery and porcelain

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73146	73211	Jiggerer/jollier, pottery and porcelain	73157	73224	Setter-operator, lathe (glass)
73146	73211	Modeller, pottery and porcelain	73158	73220	Driller, glass
73146	73210	Presser, pottery and porcelain	73158	73220	Froster, glass sandblasting
73146	73211	Tuner, pottery and porcelain	73158	73220	Gatherer, glass
73147	73212	Maker, mould(potter/porcelain)	73158	73220	Grinder, glass edge
73148	73210	Dipper, ceramics	73158	73220	Moulder, glass
73148	73210	Handler, pottery	73158	73220	Worker (laminated glass)
73148	73210	Jollier, pottery and porcelain	73158	73220	Worker, glass
73148	73210	Maker, pottery spout	<b>7316</b>		<b>Sign writers, decorative painters, engravers and etchers</b>
73148	73212	Moulder, abrasive wheel			
<b>7315</b>		<b>Glass makers, cutters, grinders and finishers</b>	73161	73240	Cutter, intaglio glass
73151	73220	Bender, glass (tube)	73161	73230	Cutter-shaper/glass
73151	73220	Drawer, glass (tube)	73161	73230	Engraver, glass
73152	73220	Blower, (glass/ scientific glass)	73161	73230	Etcher ,glass
73152	73220	Foreman (glass blowers)	73161	73230	Sandblaster ( glass decorating)
73153	73220	Maker, bangle/ rod/tube (glass)	73161	73230	waxer (decorative glass)/crystal/ intaglio)
73154	73221	Bevelle (glass)	73162	73240	Decorator(freehand painting/ spray-painting)
73154	73221	Borer/ (glass)	73162	73240	Decorator, ceramics/ glass
73154	73221	Cutter (glass)	73162	73240	Decorator, pottery
73154	73221	Finisher (glass)	73162	73241	Enameller((glass/ceramics)
73154	73221	Flatter/ (glass)	73163	73240	Painter, decorative (glass/ceramics)
73154	73221	Grinder (glass)	73164	73240	Silverer (glass/mirror)
73154	73221	Ladler (glass)	73165	73240	Bander, (ceramics decorating)
73154	73221	Rougher (glass)	73165	73240	Duster,colour((ceramics decorating)
73155	73221	Foreman (glass grinding)	73165	73240	Letterer, sign-writing
73155	73221	Grinder(precision)	73165	73240	Lithographer, (ceramics decorating)
73156	73224	Bubbler (glass manufacturing)			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73165	73230	Marker, glass engraving	73178	74220	Maker, paper
73165	73240	Signpainter	73178	73314	Maker, huttle cock
73165	73240	Signwriter	73178	74240	Weaver, basket
73165	73240	Stamper (ceramics decorating)	73178	74240	Weaver, straw
73166	73242	Dipper/Enameller (metal articles)	73178	73310	Worker, handicraft: paper articles
73166	73240	Spray-painter, decorative painting	<b>7318</b>		<b>Handicraft workers in textile, leather and related materials</b>
73166	73240	Stenciller, ceramics decoration	73181	73320	Handicraft worker, hand (garments/garment knitting/textiles)
73166	73240	Toucher-up, ceramics decoration	73181	73320	Maker(button/ zipper slide-fastener)
73166	73240	Tracer, ceramics decoration	73181	74311	Yarn dyer
73166	73240	Transferrer, ceramics decoration	73182	74320	Drawer-in, (textile weaving)
73167	73243	Acid polisher (glass decorating)	73182	74320	Maker, tapestry (hand)
73168	73244	Painter, brush/ spray (except construction)	73182	74320	Tufter(carpet weaving)
73168	73243	Painter, decorative (sign)	73182	74320	Weaver, carpet
<b>7317</b>		<b>Handicraft workers in wood, basketry and related materials</b>	73182	74320	Weaver, hand (cloth/ coir/ jacquard/lace/ax minster)
73171	73310	Handicraft worker, basketry/Maker (basket)	73183	74320	Foreman, weaving (carpet/ textile/ leather products/ bleaching/ wool sorting and grading)
73172	73310	Handicraft worker, reed weaving	73184	74311	Bleacher, fibre(textile)
73173	73310	Handicraft worker, straw articles	73184	74311	Blender, fibre(textile)
73173	73310	Maker (chik)/ Weaver(straw)	73184	74311	Carder , fibre(textile)
73174	73313	Handicraft worker, wooden articles	73184	74311	Comber/grader
73174	74243	Maker, toy (wood)	73184	74311	Degummer ,hand
73175	74240	Knitter(chair)	73184	74311	Drawer, , fiber(textile)
73175	74240	Maker, furniture (basketry/wicker)	73184	74311	Opener, fibre(textile)
73176	74241	Maker, broom/brush	73184	74311	Picker, fibre(textile)
73177	74242	Maker, footwear (raffia)	73184	74311	Preparer, fibre(textile)
73178	74240	Creeler			
73178	74240	Maker, basket			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73184	74324	Repairer, fabrics	73188	73321	Splicer) (leather products)
73184	74311	Rover, fibre(textile)	73188	73320	Worker, handicraft: carpets
73184	74320	Teaser, clearer textile)	73188	73320	Worker, handicraft: garment knitting
73185	74312	Cutter(jute)	73188	73320	Worker, handicraft: garments
73185	74312	Gasser(cotton/silk)	73188	73320	Worker, handicraft: textile weaving
73185	74311	Mixer, batch (jute)	<b>7319</b>		<b>Handicraft workers not elsewhere classified</b>
73185	74312	Scourer(wool)			
73185	74312	Selector, cotton	73191	73311	Handicraft worker, paper articles
73186	74311	Dyer, hand (garments/ yarn)	73192	73311	Maker, envelop (hand)
73186	74322	Knitter(hand)/ garments (hand)	73193	73311	Maker, paper articles
73186	74311	Lapper(ribbon/fibre/sliver (textiles)	73194	73312	Handicraft worker, stone articles
73186	74322	Seamer, garments (hand)	73194	73312	Toymaker (stone/metal)
73186	74321	Spinner (mule/ring/ thread and yarn)	73195	73315	Handicraft worker, candlemaking
73186	74323	Threader, loom (hand)	73195	73315	Maker(candle)
73187	74360	Carpet-maker	<b>7321</b>		<b>Pre-press technicians</b>
73187	74310	Classer, fibre: textile	73211	73410	Assistant, planning (printing)
73187	74310	Comber, fibre: textile	73211	73410	Compositor, printing (hand)/
73187	74320	Crocheter	73211	73410	Foreman, composer room (printing)
73187	74310	Grader, fibre: textile	73211	73410	Imposer
73187	74325	Maker(braid/ net (fishing/safety))	73211	73410	Impostor
73187	74360	Maker, artificial flower	73211	73434	Mounter, photogravure (printing)
73187	74360	Maker, carpet	73211	73410	Photo-composer ,printing
73187	74321	Stripper(bobbin)	73211	73413	Proof-presser
73188	73321	Finisher, (leather products)	73211	73431	Zinc corrector
73188	73321	Fitter, (leather products)	73212	73434	Camerman, xerography (offset printing)
73188	73321	Handicraft worker, hand (leather products)	73212	73410	Operator, desktop publishing equipment
73188	73322	Handicraft worker, hand(carpet)	73213	73420	Caster, (stereotype/ electrotype)
73188	73321	Maker(belt/ leather bag/ leather suitcase)			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73213	73421	Electrotyper	73216	73410	Publisher, desk-top: print media
73213	73411	Monotyper	73216	73420	Stereotyper
73213	73421	Moulder, stereotype/ electrotype	73216	73410	Stonehand, printing
73213	73411	Operator (intertype/ linotype/ monotype keyboard)	73216	73410	Technician, electronic pre-press
73213	73411	Type-caster (printing and publishing)	73216	73430	Tuscher, lithographic
73213	73411	Typesetter (linotype/ photo-type)	73216	73410	Typographer
73214	73412	Maker (braille plate/ stencil plate (printing))	73217	73432	Operator, (ammonia print/ powder process)
73214	73413	Maker-up (photo-typesetting/ printing)	73218	73431	Artist, stipple (lithographic)/
73214	73413	Moulder(roller (printing)/ stereotype/ electrotype)	73218	73430	Corrector (zinc)
73215	73430	Engraver (picture/ printing (lithographic stone))	73218	73434	Finisher ,plate(photo-engraving)
73215	73430	Engraver, printing block (linoleum/rubber/wood)	73218	73431	Retouches (negative/ printing plate/ lithographic/ photogravure)
73215	73430	Engraver,Printing (metal die/ metal plate/ metal roller/ pantograph/ photogravure)	73218	73431	Transferrer (photomechanical)
73215	73430	Photo-engraver	73218	73431	Transferrer, (lithographic)
73216	73432	Etcher (colour/ half tone/ photogravure/ metal engraving)	73219	73434	Grainer, photogravure (printing plates)
73216	73430	Etcher, printing: metal plate	73219	73434	Photographer, photogravure
73216	73430	Etcher, printing: metal roller	73219	73434	Photo lithographer
73216	73410	Intertype operator	73219	73434	Proofer (photogravure)
73216	73410	Linotyper	73219	73434	Mounter,photogravure printing
73216	73410	Maker, braille plate	73219	73434	Caneraman, xerography ( offset printing)
73216	73430	Maker, photogravure: printing plate	<b>7322</b>		<b>Printers</b>
73216	73410	Maker, screen	73221	73413	Feeder (paper/ printing press)
73216	73430	Operator, camera: printing	73221	73413	Inker/Proof-presser
73216	73410	Phototypesetter, printing	73221	73413	layer-on, printing press
			73221	73413	Maturer, printing papers
			73221	73413	Pressman, printing press
			73221	73413	Printer , printing press

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
73221	73413	Taker-off, printing press	73228	82514	Machine-operator, (composing (linotype)/Braille (plate preparer)/ duplicating (braille))
73222	73432	Printer (bromide/Stonehand/ ferro/ silk-screen/ block/ textile/ bag/ copper plate)	73228	82510	Operator, feeder: printing
73222	73434	Printer-to-metal (photogravure)	73228	82510	Operator, letterpress: rotary
73223	73460	Cutter, stencil (silk-screen)	73228	82510	Operator, machine: casting (printing type)
73223	82510	Embosser(paper)	73228	82510	Operator, machine: photo-typesetting
73223	82510	Holder, section (priming)	<b>7323</b>		<b>Print finishing and binding workers</b>
73223	73461	Maker, stencil (silk-screen)	73231	73450	Bookbinder
73223	82510	Operator, letterpress (cylinder/platen)	73231	73450	Collator ,bookbinding
73223	82510	Stamper (heraldic printing)	73231	73450	Finisher ,book
73224	82510	Operator, press: digital	73231	73450	Forwarder ,bookbinding
73224	82510	Operator, press: flexographic	73231	73450	Gilder ,edge(bookbinding)
73224	82510	Operator, press: gravure	73231	73450	Marbler, bookbinding
73224	82510	Operator, press: large sheet-fed	73231	73450	Sewer, bookbinding
73224	82510	Operator, press: photogravure	73232	73450	Embosser, book (hand)
73224	82510	Operator, press: screen printing	73233	73450	Foreman, bookbinding
73224	82510	Operator, press: small	73234	82520	Machine-operator, bookbinding
73224	82510	Operator, press: web	73235	82520	Machine-operator (embossing (books)/collating (book binding))
73224	82510	Press-operator, printing (cylinder/platen /direct lithographic)	73236	82520	Operator, cutter: printing
73225	82510	Press-operator, printing (offset/ rotary/ rotogravure/ wallpaper/)	73236	82520	Operator, foil stamp
73226	82512	Machine-operator, casting (Ludlow/ printing type)/printing (textiles)	73236	82520	Operator, folder: printing
73226	82512	Setter-operator, casting machine (printing type)	73236	82520	Operator, gatherer: printing
73227	82513	Machine-operator, photo-typesetting	73237	82520	Operator, multibinder
73228	82510	Jogger, web press	73237	82520	Operator, perfect binder
			73237	82520	Operator, saddle stitch: bookbinding

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>7411</b>		<b>Building and related electricians</b>	74127	72412	Fitter(generator/magneto /motor/ dynmo/ electrical pipe)
74111	71370	Electrician, (wireman/ indoor/building (electrical installation/maintenance)	74127	72412	Fitter, electrical (electrical meter/ switchboard/ switchgear/ transformer/ rheostat
74112	71370	Electrician (aerial way )/UPS	74128	72412	Foreman, electrical
74113	71370	Electrician (mine)	74128	72410	Repairer, wheelchair: motorized
74114	71370	Electrician (neon-lighting)	74128	72410	Repairer, electrical equipment
74115	71370	Electrician (stage, studio and theater)	74128	72410	Repairer, wheelchair: electric
74116	71370	Foreman, electrician	74128	72410	Servicer, electrical equipment
74117	71370	Inspector (street light)	74128	72412	Repairman, electrical (motor/ electrical meter/ electrical office equipment)
<b>7412</b>		<b>Electrical mechanics and fitters</b>	<b>7413</b>		<b>Electrical line installers and repairers</b>
74121	72410	Charger, lamp (mining)	74131	72451	Foreman, line (electrical)
74121	72410	Electrician{(motor vehicle/ship/train/aircraft )}	74132	72451	Jointer, cable(electrical)
74121	72410	Fitter / Electrician,UPS	74133	72451	Layer, cable (underground)
74121	72410	Fitter{(motor vehicle/ship/train/aircraft )	74134	72451	Worker, cable/line/wire (electric power (overhead/underground)
74121	72412	Installer, Electrical meter	74135	72451	Worker, cable/line/wire (electric traction (overhead cables))
74122	72411	Mechanic, electrical	74136	72451	Trolley man, aerial way
74123	72412	Builder(armature	74137	72450	Plumber-jointer, electric cable
74123	72412	commutator/ core)	<b>7421</b>		<b>Electronics mechanics and servicers</b>
74124	72412	Fitter, electrical (elevator and related equipment)	74211	72420	Fitter( radar signaling system)
74125	72412	Fitter, electrical (instruments/ signaling equipment)	74211	72420	Fitter(equipment/ meteorological equipment)
74126	72412	Electrician, electrical (domestic appliances/ refrigeration and air-conditioning)	74211	72420	Fitter, electronics (audio-visual equipment)
74126	72412	Fitter, electrical (domestic appliances/ refrigeration and air-conditioning)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
74212	72420	Foreman, electronics (audio-visual equipment)	74221	72430	Servicer, communications technology
74213	72430	Mechanic, electronics (audio—visual equipment/ office equipment)	74221	72441	Mechanic(television/radi o)
74214	72431	Servicer, electronics equipment (audio-visual)	74221	72441	Repairman(telephone/tel egraph/computer)
74215	72430	Engineer, aircraft maintenance: avionics	74221	72441	Servicer(radio/television)
74216	72430	Technician, avionics	74221	72441	Servicer(telephone/ telegraph/ computer)
74216	72430	Technician, photocopy machine	74222	74430	Foreman (radio mechanic/television mechanic)
74217	72430	Mechanic, accounting- machine	74222	72440	Maintainer, section (telephone/telegraph /computer)
74217	72420	Mechanic, automated teller machines	74223	72451	Jointer ,cable, (telephone/telegraph)
74217	72430	Mechanic, avionics	74223	72450	Cable man ,telephone/telegraph
74217	72430	Mechanic, business machine: electronic	74223	72451	Jointer ,cable
74217	72430	Mechanic, calculating machine: electronic	74223	72450	Line worker ,telephone/telegraph
74217	72430	Mechanic, electronics	74223	72450	Tester ,cable
74217	72430	Mechanic, office machine: electronic	74223	72451	Puller, cable (cable laying)
74218	72430	Repairer, audio-visual equipment	74223	72442	Installer)(telephone/teleg raph/computer)
74218	72430	Repairer, electronics equipment	74224	72442	Foreman, installation (telephone and telegraph)
74218	72430	Servicer, audio-visual equipment	74225	74420	Erector, aerial (communication)
74218	72430	Servicer, electronic equipment	74225	72432	Erector, aerial (radio/television)
<b>7422</b>		<b>Information and communications technology installers and servicers</b>	74226	72430	Cabler, data
74221	72420	Fitter, electronics equipments (information &communications)	74226	72430	Cabler, telecommunications
74221	72430	Repairer, television/radio	74226	72451	Foreman, line (telephone/telegraph)
74221	72441	Mechanic(telephone/tele graph/computer)	74227	72440	Technician, communications: telecommunications
74221	72430	Repairer, telecommunications equipment	74227	72430	Technician, computer: hardware
			74228	72430	Worker, cable: data
			74228	72430	Worker, cable: telecommunications

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
74228	72450	Worker, cable: telegraph	75116	74112	Filleter, meat/fish
74228	72450	Worker, cable: telephone	75116	74113	Pickler/ <b>curer</b> , meat/fish
74228	72450	Worker, line: telecommunications	75116	74112	Smoker, meat/fish
74228	72450	Worker, line: telegraph	75116	74112	Fishmonger
74228	72450	Worker, line: telephone	75116	74112	Salter (meat/fish/bacon)
74228	72450	Worker, wire: telegraph	75117	74113	Briner ( foodstuffs)
74228	72450	Worker, wire: telephone	75117	74111	Maker ( string (gut)
<b>7511</b>		<b>Butchers, fishmongers and related preparers</b>	75117	74111	Preserver, sauces and condiments
75111	74110	Eviscerator (animal/poultry)	75117	74110	Maker, sausage
75111	74110	Skinner, animal	75118	74110	Worker, smokehouse: fish
75111	74110	Slaughterer	75118	74110	Worker, smokehouse: meat
75111	74110	Splitter( carcass)	<b>7512</b>		<b>Bakers, pastry-cooks and confectionery makers</b>
75111	74110	Sticker, animal	75121	74120	Baker (bread/ general)
75111	74110	Stunner (animal)	75121	74121	Baker, biscuit/ pastry)
75112	74111	Curer (fish/ meat/ chicken)	75121	74120	Yeast maker
75112	74111	Cutter(fish/ meat/ chicken)	75122	74120	Maker, yeast
75113	74111	Boner (fish/meat)	75122	74120	Mixer, bread dough
75113	74111	Butcher(fish/meat)	75122	74120	Mixer, paste (pies)
75113	74111	Dresser, meat/poultry/triple	75123	74121	Oven (bread/biscuits/ man flour confectionery)
75113	74111	Trimmer, meat	75123	74121	Pastry-cook
75114	74111	Flayer	75124	74122	Maker (chocolate/ sugar confectionery)
75114	74111	Gambreller (butchery)	75124	74124	Maker ,chewing-gum
75114	74111	Knacker	75124	74121	Maker, flour confectionery/ pie/sweat /meat)
<b>75115</b>	<b>74111</b>	<b>Stripper, gut</b>	75124	74123	Maker, macaroni/noodle
<b>75115</b>	<b>74111</b>	<b>Worker, offal</b>	75125	74121	Confectioner
75115	74111	Shactor offal	75125	74121	Halwai
75116	74113	Driver, meat/fish			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75126	74120	Tandorchi	75141	74140	Pickier(fruit)
75127	74120	Concher, chocolate	75141	74140	Preserver (fruit)
75127	74120	Cutter, sugar	75142	51220	Cook, preserving
75127	74120	confectionery	75142	74140	Preserver (fruit juice/ vegetable juice)
75127	74120	Decorator, cake	75143	74141	Canner(vegetable)
75127	74120	Dipper, sugar	75143	74141	Pickler(vegetable)
75127	74120	confectionery	75143	74141	Preserver (vegetable)
75127	74120	Grinder, chocolate	75144	74142	Maker (fruit juice/ sugar (traditional methods)/ vegetable juice)
75127	74120	Hand, table: bread	75145	74144	Blancher, nuts (hand)
75127	74120	Hand, table: flour	75145	74144	Expeller, oil
75128	74120	confectionery	75146	74140	Maker (chutney/jam)
75128	74120	Mixer, chocolate	<b>7515</b>		<b>Food and beverage tasters and graders</b>
75128	74120	Mixer, flour	75151	74150	Grader ( food/ meat/ oil /vegetable/fruit/ cocoa/coffee) (hand)
75128	74120	confectionery	75152	74151	Maker, (champagne /liqueur/ vinegar)
75128	74120	Mixer, sugar	75152	74151	Taster, (food /coffee/tea /juice/( liquor/ wine))
75128	74120	confectionery	75153	74153	Blender, (coffee /tea/ wine)
75128	74120	Moulder, chocolate	75153	74153	Kibbler, (cocoa-bean)
75128	74120	Presser, chocolate	75154	74154	Roaster, (coffee/ coca-bean) (hand)
75128	74120	production	75155	74156	Clarifier /Racker, (wine)
75128	74120	Presser, noodle	<b>7516</b>		<b>Tobacco preparers and tobacco products makers</b>
75128	74120	extruding	75161	74160	Blender(tobacco)
75128	74120	Refiner, chocolate	75161	74161	Bulker( tobacco)
75128	74120	Roller, sugar	75161	74160	Grader(tobacco)
75128	74120	confectionery	75161	74160	Flavourer, tobacco
75128	74120	Temperer, chocolate	75161	74160	Mixer (tobacco)
75128	74120	Worker, oven: biscuits	75162	74161	Conditioner(tobacco)
75128	74120	Worker, oven: bread			
75128	74120	Worker, oven: flour (confectionery)			
<b>7513</b>		<b>Dairy-products makers</b>			
75131	74130	Maker (butter/ cheese			
75132	74130	Maker. dairy products			
75133	74130	Maker, ice-cream			
<b>7514</b>		<b>Fruit, vegetable and related preservers</b>			
75141	74140	Canner(fruit)			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75162	74161	Cutter(tobacco)	75213	74212	Tankman (wood treating)
75162	74161	D ryer, (tobacco)	75214	74212	Worker, wood incising
75162	74161	Dipper (tobacco)	75215	74210	Dipper, wood treatment
75163	74162	Presser cigar	75215	74210	Impregnator, wood
75163	74162	Sorter, cigar	75216	74210	Operator, kiln: dry (wood)
75163	74161	Stemmer(tobacco)	75216	74210	Operator, kiln: lumber
75163	74161	Stover(tobacco)	75216	82400	Operator, machine: painting (wood)
75163	74161	Stringer (tobacco)	75216	81410	Operator, machine: seasoning (wood)
75163	74161	Stripper(tobacco)	75216	81410	Operator, machine: tempering (wood)
75163	74163	Supervisor, bidi maker	75216	81410	Operator, machine: treating (wood)
75164	74162	Maker (tobacco cake/plug /cigar/ bidi /cigarette /naswar/snuff)	75216	74210	Operator, tank: timber treating
75165	74160	Drier, snuff	75217	74210	Tender, veneer dryer
75165	74160	Drier, tobacco	75217	74210	Woodworker, treating
75165	74160	Dryer, tobacco	75217	74210	Worker, wood: treating
75166	74160	Grinder, snuff	<b>7522</b>		<b>Cabinet-makers and related workers</b>
75166	74160	Moulder, cigar	75221	74220	Finisher, furniture (wood)
75166	74160	Presser, cigar	75221	74227	Foreman, coach-body builder
75166	74160	Screeener, snuff	75221	74220	Foreman, cabinet maker
75167	74160	Worker, tobacco: conditioning	75222	74221	Maker( cricket bat/ duce pip/ hockey stick/rackets (wood)
75167	74160	Worker, tobacco: cutting	75222	74221	Maker(sports quipment (wood)/ wicket)
75167	74160	Worker, tobacco: drying	75222	74220	Maker, charpoy, furniture (cane), furniture (wood), ladder (wood)
75167	74160	Worker, tobacco: leaf stemming	75222	74222	Maker,barrel/tank/cask( wooden)/ coffin/ instrument case(wood)
75167	74160	Worker, tobacco: leaf stripping	75222	74222	<b>Maker pattern/wood patterns</b>
<b>7521</b>		<b>Wood treaters</b>	75223	74227	Applier, veneer
75211	74210	Grader/ Seasoner/ Impregnator/ Treater(wood)			
75212	74212	Foreman(wood preserving/ treating)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75223	74227	Bender, Wood	75233	74231	Setter-operator(saw (fret/jig)/ shaping machine/ lathe (wood-working)/ woodworking machine))
75223	74227	Builder, vehicle-body/frame(wooden)			
75223	74220	Maker/Skiver, monarch	75234	74232	Sawyer, (precision woodworking/ wood)/ Tuner/ borer( wood)
75224	74220	Rappiman	75235	74233	Woodworker(dovetailing/ dowelling/. morticing/ sanding/ tenoning)
75224	74227	Wheel-Wright	75236	82400	Lathe-operator, woodworking
75224	74222	Cooper	75237	82400	Machine-operator (crayon-press/ sanding (wood working)/ wood working)
75224	74223	Tenoner	75237	82400	Machine-operator (sports equipment) / toy production / wood products)
75224	74227	Cart-Wright	75237	82400	Machine-operator(woodworking/ boring (woodworking))
75224	74227	Inlayer, marquetry	75237	82400	Machine-operator( bending / carving / marking / painting / polishing )(wood)
75224	74227	Maker, cloth, picture frame, pipe (smoking(wood)	75237	82400	Machine-operator( engraving / etching / finishing / furniture production)(wood)
75224	74226	Carver, plastics wood/ivory/bone)	75237	82400	Machine-operator, cork rounding
75224	74224	Maker( stamp (rubber)/Pattern-maker, wood patterns/ model (wooden) woodworking)	75237	82400	Operator( fret-saw/ jigsaw)
75225	74221	Mistry, cricket bat, racket maker,(wood)	75238	74230	Borer, wood
75226	74220	Polisher, wood	75238	82400	Machinist, wood products
75227	74220	Cabinet-maker	75238	81410	Operator, machine: drilling (wood)
75227	74220	Cabinet-maker, furniture	75238	74230	Operator, set-up: woodworking machine
75228	74220	Stainer, wooden furniture	<b>7531</b>		<b>Tailors, dressmakers, furriers and hatters</b>
75228	74220	Varnisher, wooden furniture	75311	74330	Durzi
75229	74220	Other sports equipments	75311	74330	Tailor (garment (ready-to-wear)/ instrument covers/theatrical)
<b>7523</b>		<b>Woodworking-machine tool setters and operators</b>			
75231	74230	Setter, woodworking machine			
75231	74232	Turner (wood)			
75232	74231	Setter-operator( carving/ planing/ routing machine (woodworking))			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75311	74330	Tailor (Kaj button/dress/gown/ alteration/fur)	75322	74350	Marker, garment
75311	74330	Tailor(bespoke/ garment (made-to-measure)	75323	74350	Pattern-maker( caps/ fur/ garment/ gloves/ hats/ sails/ tents/ mattresses/ upholstery)
75311	74330	Tailor, theatrical	75324	74350	Pattern-maker,others
75312	74331	Coner, hat forms)	75325	74354	Cutter (garment/ glove (leather)/mattress/ sail/ tent/ cover/ seat/ umbrella/ upholstery)
75312	74331	Former, wool/felt (hood)	75326	74354	Splicer, bias
75312	74331	Maker( cap/hat (straw)/ helmet/wig)	75327	74350	Cutter, pattern
75313	74331	Milliner	75327	74350	Cutter, tailor's
75313	74333	Mistress, wardrobe (stage and studio)	75328	74350	Patternmaker, umbrellas
75314	74334	Cutter, garments (leather)	<b>7533</b>		<b>Sewing, embroidery and related workers</b>
75315	74341	Cutter, fur	75331	74360	Coverer, roller (leather)
75315	74342	Furrier	75331	74360	Toymaker (doll)
75315	74340	Grader ,fur	75332	74360	Maker, (cycle cover/ pocket (motor cover)/other covers)
75315	74340	Matcher, fur	75333	74360	Repairer, cloth/ Seamstress
75315	74341	Nailer ,fur	75334	74360	Sewer ( leather hand/ mattress / upholstery)
75315	74340	Sorter ,fur	75334	74360	Sewer (drapery/ elastic/ footwear (hand)/ fur (hand))
75315	74341	Trimmer ,fur	75334	74360	Sewer( garments/ textile/ hat/ leather)
75316	74330	Dressmaker	75335	74361	Darner (excluding carpets)
75316	74330	Dressmaker, theatrical	75335	74361	Embroiderer
75316	74340	Hatter	75336	74362	Maker ( carpet (hand knotting)
75317	74330	Maker, blouse	75336	74362	Maker (sail, tent and awning/ umbrella)
75317	74330	Maker, corset	75336	74365	Maker (toy /dolls and stuffed toys)/ toy (soft toys))
75317	74330	Maker, gown	75336	74365	Maker artificial flower
75317	74330	Maker, lingerie	75337	74363	Carpet man (ship)
75317	74330	Maker, shirt			
75317	74330	Master, wardrobe			
<b>7532</b>		<b>Garment and related pattern-makers and cutters</b>			
75321	74350	Copyist, jacquard design			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75337	74366	Clipper, carpet	75356	74412	Finisher, pelt
75337	74366	Darner, carpet	75356	74412	Pickier, pelt
75337	74363	Repairman, umbrella	75356	74412	Plucker, pelt
<b>7534</b>		<b>Upholsterers and related workers</b>	75356	74412	Polisher, leather
75341	74370	Trimmer, coach	75356	74412	Presser, hide/skin
75342	73371	Upholsterer (furniture/ soft furnishing/ aircraft/ automobile/ railway carriage)	75356	74412	Trimmer( pelt)
75342	74370	Upholsterer, orthopaedic	75357	74412	Puller, pelt
75342	74370	Upholsterer, vehicle	75357	74412	Shaver, fur
75343	73372	Maker (bedding/mattress/ quilt)	75357	74412	Sleeker, feather
<b>7535</b>		<b>Pelt dressers, tanners and fell mongers</b>	75357	74412	Stainer, leather
75351	74410	Classer( hide/skin)	75357	74412	Stretchers( leather/ pelt)
75351	74410	Classer, pelt	75357	74412	Tanner (hide/leather)
75351	74410	Grader( hide/skin)	75358	74410	Dehairer, hide
75352	74410	Foreman, leather(beam/hide house)	<b>7536</b>		<b>Shoemakers and related workers</b>
75352	74410	Foreman, leather(finishin g room/split and drum room /tan room)	75361	74420	Attacher, .heel /welt and sole(shoes)
75353	74410	Fellmonger	75361	74420	Builder, (shoes)
75353	74410	Grader, pelt	75361	74420	Burnisher, (shoes)
75354	74410	Buffer, leather	75361	74420	Cementer, (shoes)
75354	74410	Currier, leather	75361	74420	Channeller, (shoes), upper
75354	74412	Dresser, pelt	75361	74420	Rounder (Shoes)
75354	74411	Flesher /dehairer( hide)	75362	74420	Cobbler
75354	74411	Flesher, pelt	75362	74420	Cutter (leather/ shoe (hand)/ welt)
75354	74411	Splitter, hide	75363	74420	Eyeleteer ,shoe
75355	74412	Dyer (pelt/ leather/ (leather/pelt))	75363	74420	Finisher shoe
		stainer/ vat	75363	74420	Fitter, shoe
			75363	74420	Folder shoe
			75363	74420	Grader) (sole/uppers)
			75363	74420	Laster, bed(shoes)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75363	74420	Preparer shoe	75368	74420	Maker, surgical footwear
75364	74420	Maker (shoe/ shoe (orthopedic/sport))	75368	74420	Polisher, footwear
75364	74420	Pattern-maker, shoe	75368	74420	Presser, footwear: soles
75364	74420	Preparer, shoe (uppers)	75368	74420	Repairer, footwear
75365	74420	Presser, shoe(soles)	75368	74420	Rounder, footwear
75365	74420	Pressman, , shoe	75368	74420	Saddler
75365	74420	Skiver/Socker/ Splitter/ Stitcher/Trimmer/Repairer/ Finisher Shoe	75368	74420	Sorter, footwear
75366	74422	Bag maker (leather)	75368	74420	Stainer, footwear
75366	74422	Maker (bridle/ harness/ horse collar/ panel (saddlery)/ saddle/ whip/ bladder	<b>7541</b>		<b>Underwater divers</b>
75366	74422	Maker, football /volleyball/ (hockey/cricketball/sports equipment (leather)	75411	72160	Diver (salvage)
75367	74420	Finisher,harness	75411	61520	Diver(oyster)
75367	74423	Mistry, leather ball makers	75411	61520	Diver(pearl)
75367	74420	Repairer ,shoe	75411	61520	Diver(sponge)
75367	74423	Sewer, <b>saddle</b>	75411	61520	Diver, abalone
75367	74420	Skiver ,shoe	75411	72160	Diver, commercial
75367	74420	Socker,shoe	75411	61520	Diver, shell fish
75367	74421	Splitter, shoe	75411	72160	Diver, underwater
75367	74423	Taker-off ,shoe finishing	75412	72160	Frogman
75367	74423	Trimmer, shoe finishing	75412	72160	Frogman, salvage
75368	74420	Grader, footwear: soles	75412	72160	Frogwoman
75368	74420	Maker, footwear	75413	72161	Underwater worker
75368	74420	Maker, harness	75414	72160	Welder, underwater
75368	74420	Maker, leather goods	<b>7542</b>		<b>Shotfirers and blasters</b>
75368	74420	Maker, orthopaedic: footwear	75421	71120	Loader, gun perforator
75368	74420	Maker, sports equipment: footwear	75422	71120	Perforator, gun
			75423	71120	Shotfirer
			75424	71121	Blaster
			75425	71120	Monkey, powder
			75426	71120	Powder man

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75426	71120	Powder woman	75435	31520	Grader, textile
			75436	31525	Inspector and tester, electrical and electronic products
			75436	31520	Inspector, electrical products
<b>7543</b>		<b>Product graders and testers (excluding foods and beverages)</b>	75436	31520	Inspector, electronic products
75431	31520	Inspector (complaint control )	75436	31520	Inspector, products (except food and drinks)
75431	31523	Inspector (post offices )	75437	31520	Wool classer
75431	31525	Inspector (quality (fabrics))	<b>7544</b>		<b>Fumigators and other pest and weed controllers</b>
75431	31524	Inspector (rationing)	75441	71430	Fumigator
75431	31520	Inspector( labour & welfare)	75442	71430	Pest controller
75431	31522	Inspector( loco and carriage	75443	71430	Weed controller
75431	31526	Inspector( quality (any other specialism)	75444	71430	Contractor, spraying: pest or weed control
75432	31525	Checker, ceramic	75444	71430	Controller, pest
75432	31525	Classifier, tyre	75444	71430	Controller, weed
75432	31522	Controller, lehr (glass manufacturing)	75444	71430	Exterminator
75432	31525	Picker, finishing department (textile)	75445	71430	Officer, pest management
75433	31526	Assistant, quality assurance	75446	71430	Sprayer, crops (except aerial)
75433	31526	Controller, quality	75446	71430	Sprayer, herbicide
75433	31526	In charge, quality control	75446	71430	Sprayer, insecticide
75434	31526	Sadhai wala	75446	71430	Sprayer, malaria control
75434	31526	Sorter (cigarettes)	75446	71430	Sprayer, pesticide
75434	31525	Tester (armature)	75446	71430	Sprayer, weed
75434	31526	Viewer (quality inspection)	75447	71430	Technician, pest control
75435	31520	Classer, wool	<b>7549</b>		<b>Craft and related workers not elsewhere classified</b>
75435	31520	Examiner, cloth	75491	73220	Moulder, glass (lens)
75435	31520	Examiner, fabrics	75492	73222	Polisher, glass (lens/plate)
75435	31520	Grader, products	75493	73222	Cutter, (optical glass)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
75493	73222	Slitter (optical glass)	81118	81110	Operator, dragline: mining
75494	52200	Arranger, flower	81118	81110	Operator, jumbo
75494	73220	Finisher, optical lens	81118	81110	Operator, mining plant
75495	52200	Florist, arranging flowers	81118	71110	Robber, timber: mine
75496	73220	Grinder, glass lens	81118	71110	Worker, timbering: mine
75497	73220	Moulder, optical lens	81118	71110	Worker, quarry timbering:
75498	73220	Slicer, optical glass	81118	71110	Worker, quarry timbering:
<b>8111</b>		<b>Miners and quarries</b>	<b>8112</b>		<b>Mineral and stone processing plant operators</b>
81111	81110	Header, main (mining)			
81112	81110	Machine-operator (cutting/ drilling/quarry (mining))	81121	81120	Machine-operator (crushing (coal/mineral/ore/rock/st one))
81112	81110	Mucker (mine/quarry))			
81113	71110	Miner(surface/underground/ blower down/ coal/ hydraulic (placer mining)/ salt	81121	81120	Machine-operator( milling/ pulverizing/washing (minerals/stone))
81114	71110	Piler, mine	81121	81120	Operator, crusher: mineral or stone processing
81114	71110	Sirdar colliery			
81115	71111	Clipper, mine	81121	81120	Operator, machine: magnetic ore processing
81115	71111	Quarrier	81121	81120	Operator, machine: mineral processing
81116	71112	Drawer, prop,mine	81121	81120	Operator, mineral-processing plant
81116	71112	Timber (mine/quarry)	81121	81120	Operator, stone-processing plant
81116	71113	Timbering worker(quarry/mine/und erground)	81122	81120	Operator ( breaker (gyratory)
81117	81110	Machine-operator, channelling (mine)	81122	81120	Operator(cone (mine)/ gravitation equipment (mine
81118	71110	Bolter, roof: mining	81122	81120	Operator, lathe (stone)
81118	71110	Driller, mining	81123	81120	Tender, jig
81118	71110	Miner, diamond	81123	81120	Washer, coal
81118	71110	Miner, gold	81123	81120	Worker, cyanide: separation equipment
81118	81110	Operator, bogger			
81118	81110	Operator, continuous miner	81124	81121	Attendant (hammer mill and belt conveyor

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81124	81121	Screening plant (mining)/ tippler)	81138	71360	Digger, well
81125	81121	Machine-operator (cutting/drilling/grinding/ planning/ sawing/ splitting (stone))	81138	81134	Driller ,cable (oil and gas wells)
81126	81121	Screeener, minerals	81138	81130	Driller, developmental
81126	81121	Separator, screener, minerals	81138	81130	Driller, directional
81127	82124	Operator ( concrete-mixing plant)	81138	83320	Operator, earth-boring machinery: construction
81127	81123	Polisher, granite /marble/slate/stone	81138	83320	Operator, earth-moving equipment
81128	81122	Floatation worker, minerals	81138	81130	Operator, power-tong
81128	81123	Precipitator (gold/silver) /Cupola man, dolomite plant	81138	81130	Operator, pulling equipment: oil and gas wells
<b>8113</b>		<b>Well drillers and borers and related workers</b>	81138	71110	Sampler, core
81131	81130	Borer,well	81138	81130	Sinker, bore
81131	81130	Driller/borer, well (except oil and gas)	81138	71360	Sinker, well
81132	81130	Operator, drilling equipment (rotary)/fishing tool/mud plant/derrick (oil and gas wells)	81138	81130	Toolpusher
81133	81130	Pumper, oil well	81138	81130	Tourpusher
81133	81130	Tester, pipe (petrol driller)	<b>8114</b>		<b>Cement, stone and other mineral products machine operators</b>
81134	81131	Foreman, field (petroleum production)	81141	82120	Machine-operator (fibro/asbestos-cement products)
81134	81131	Foreman, petroleum production	81141	82125	Machine-operator( abrasive-coatings production)
81135	81132	Cleaner, well (petrol and gas)	81141	82120	Machine-operator(/ stone products)/ stone polishing)
81136	81133	Operator, pulling equipment (oil and gas wells)	81141	82120	Machine-operator (mineral products)
81137	81133	Puller, casing/well (oil and gas wells)	81142	82120	Miller (cement manufacturing)
81137	81133	Pulling gang man	81143	82122	Lathe-operator, working/ polishing (stone)
81138	81134	Caser, (oil and gas wells)	81144	82122	Machine-operator( cast-concrete products /cutting (mosaic)
81138	81130	Derrickman	81144	82122	Machine-operator, artificial stone products / cast-stone products/)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81145	82122	Machine-operator, carving/cutting/engraving/finishing (stone/concrete)	81213	81222	Slitter (metal)
81146	82123	Machine-operator, production/polishing (industrial diamonds/polishing)	81213	81222	Straightener, (metal)
81147	82123	Operator (concrete-mixing plant)	81214	81222	Chipper (blooms/billets)
81148	73130	Cutter-polisher, industrial diamonds	81214	81222	Designer, roll (rolling mill)
81148	82120	Operator, machine: cement products	81214	81222	Doubler (metal sheets)
81148	82120	Operator, machine: concrete production	81214	81221	Heater, hot rolling mill
81148	82120	Operator, machine: industrial-diamond production	81214	81220	Melter, metal
81148	82120	Operator, machine: polishing (industrial diamond)	81214	81220	Operator, cupola
81148	73130	Polisher, industrial diamonds	81214	81221	Operator, oven/descaler (metal)
81148	73130	Sawyer, industrial diamonds	81214	81220	Tapper, furnace (metal melting)
<b>8121</b>		<b>Metal processing plant operators</b>	81215	81221	Furnace-operator (cupola furnace)/ die casting)
81211	81211	Charger, furnace (ore smelting and refining)	81215	81221	Furnace-operator hydraulic forging/ malleable casting)
81211	81211	Gasman, (blast furnace)	81215	81221	Furnace-operator( extrusion (metal)/ forge/ hot mill)
81211	81211	Keeper, general((blast furnace)	81215	81221	Furnace-operator( reheating (metal)
81211	81211	Pitman	81215	81220	Furnace-operator, melting
81211	81211	Skimmer	81215	81222	Operator metal (unfinished products)/ non-ferrous metal
81211	81210	tapper (ore smelting and refining)	81215	81222	Operator seamless pipe and tube/ steel (cold-rolling)
81212	81211	Machine-operator, pig casting (open hearth)	81215	81222	Operator steel (hot-rolling/billet/ blooming/cogging)
81212	81211	Minder, stove (blast furnace)	81215	81222	Operator, rolling mill (metal (finished products)
81212	81211	Operator, bell (blast furnace)	81216	81230	Furnace-operator, heat-treating / annealing / hardening (metal)
81213	81222	Feeder (corrugate iron)	81216	81234	Machine-operator( mixing /tempering (metal))
81213	81221	Fireman (metal melting)			
81213	81222	Shearman, (metal)			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81216	81230	Operator, heat-treating plant / carbonation equipment (metal)	81218	81210	Operator, uranium classifier
81217	81232	Annealer (wire drawing)	81218	81210	Pourer, ladle
81217	81232	Carboniser (metal)	81218	82230	Refiner, lead
81217	81232	Hardener (metal)	81218	82230	Refiner, metal
81217	81233	Normaliser (metal treating)	81218	82230	Refiner, steel
81218	81210	Classifier, aluminum	81218	81220	Roller, steel
81218	81230	Dryer, asbestos	81218	81210	Shredder, scrap metal
81218	81232	Nitrider(metal)	81218	81213	Furnace-operator refining,(non-ferrous metal)
81218	72110	Ladler, metal	81218	81212	Furnace-operator, (refining,steel(oxygen furnace))
81218	81240	Machine-operator, drawing ((metal/wire)/drawing (seamless pipe/tube)/ extruding (metal))	81218	81224	Furnace-operator,puddling
81218	81220	Manipulator, rolling-mill	81218	81223	Machine-operator (die (non-ferrous metal)/ (metal))
81218	81240	Operator, extrusion press	81218	81223	Machine-operator, casting (continuous rod (non-ferrous metalboring))
81218	81220	Operator, foil-winding machine	<b>8122</b>		<b>Metal finishing, plating and coating machine operators</b>
81218	81230	Operator, furnace: annealing (metal)	81221	82230	Examiner (cilinders)/(metal products)
81218	81230	Operator, furnace: case-hardening (metal)	81222	82230	Machine-operator (degreasing/ polishing/electroplating
81218	81210	Operator, furnace: puddling	81222	82230	Machine-operator (plating/coating/galvanizing) (metal/wire)
81218	81220	Operator, ladle: pouring (metal)	81223	82230	Machine-operator (dipping/laminating/painting/spraying/bluing/refining) (metal)
81218	81240	Operator, machine: drawing (seamless tube)	81223	82230	Machine-operator finishing (cast metal articles)/shotblasting(metal)
81218	82290	Operator, machine: lead production	81223	82230	Plater, wire (machine)
81218	81220	Operator, machine: metal processing	81224	82230	Operator, sandblast lug
81218	81220	Operator, machine: pouring (metal)			
81218	82230	Operator, machine: refining (metal)			
81218	81240	Operator, plant: metal extrusion			
81218	81240	Operator, press: extruding (metal)			
81218	81210	Operator, slurry equipment: metal			



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		equipment (metal)			production)
81225	82232	Anodiser	81313	82211	Compounder, perfume
81225	82232	Bronzer	81313	82210	Machine-operator (Pharmaceutical/coating/ tablets&pills)
81225	82232	Dipper (tin/zinc)	81313	82211	Machine-operator (toiletries/ soap making)
81225	73242	Dipper,metal artical	81313	82212	Machine-operator ,detergent
81225	82232	Electroplater	81313	82222	Machine-operator( match production)
81225	82232	Galvaniser)	81313	81594	Technician, hot cell / Operator (bleacher (chemicals
81225	82232	Oxidiser	81313	82211	Tower man (soap making)
81225	82230	Sandblaster (castiligs)	81313	82210	Worker ((general), chemical processing plant (pharmaceutical)
81225	82231	Sherardiser	81313	82211	Worker, kettle (soap making)
81225	82232	Tinner	81313	82211	Operator (distilling equipment (perfume) centrifuge (soap making)
<b>8131</b>		<b>Chemical products plant and machine operators</b>			
81311	81511	Brineinaker (salt production)	81313	82211	Operator (granulation equipment (toiletry products)
81311	81512	Machine-operator (colo'ur making/grease making	81314	82211	Operator( moulding equipment (toiletries)/ still (perfume))
81311	81510	Machine-operator (compounding/crushing/ grinding)	81314	82210	Operator, granulation equipment (pharmaceutical products) pharmaceutical
81311	81510	Machine-operator (mixing/ pulverizing/ blending/milling (chemical and related processes))	81314	82210	Operator, (bleacher/chemicals) /treater (radioactive waste)
81311	81513	Miller	81314	82210	Operator, chemical processing plant (electric cells/radioactive materials)/fish fertilizer/ liquefaction plant (gases)
81311	81513	Mixer (fertilizer)	81314	82210	Operator, kiln (charcoal production/ coke (retort kiln), Machine-operator (synthetic-fiber production/coal gas
81311	81510	Operator, shredder/stirrer (chemical mixing)			
81311	81511	Ponds man			
81312	81596	Machine-operator( coal gas production)			
81312	81595	Machine-operator( fertilizer production)			
81312	81592	Machine-operator( synthetic-fiber			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		production/ production			
		fertilizer			
81315	82220	Machine-operator (ammunition products /explosives production)	81317	81540	Operator, continuous distiller: (chemical processes except petroleum and natural gas)
81315	82220	Machine-operator( fireworks /production)/Dipperman( matches)	81317	81550	Operator, distiller: petroleum and natural gas refining
81316	82291	Machine-operator ((lead (-oxide) production/ gas production (chlorine, halogen)	81317	81540	Operator, distiller: turpentine
81316	82291	Machine-operator( linoleum production/ pencil/ candle (production)	81317	82210	Operator, distilling equipment: perfume
81316	82291	Machine-operator(hydrogen etc)/ paint/varnish production/ washing (chemical and related materials)	81317	81540	Operator, evaporator: chemical processes (except petroleum and natural gas)
81316	82291	Moulder, candle making/ Spinner, nylon	81317	81540	Operator, extractor: wood distillation
81316	82291	Operator(Worker (general), cook house (glue)	81317	81520	Operator, kettle: chemical and related processes
81316	82291	Operator, (centrifuge (glue)/ kettle (adhesives)/ radioactive waste treatment )	81317	81540	Operator, reactor-converter: chemical processes (except petroleum and natural gas)
81317	81520	Operator, boiler: chemical and related processes	81317	81520	Operator, spray-drier: chemical and related processes
81317	81550	Operator, compounder: petroleum and natural gas refining	81317	81540	Operator, vacuum pan: chemical and related processes (except petroleum and natural gas)
81317	81540	Operator, converter: chemical processes (except petroleum and natural gas)	<b>8132</b>		<b>Photographic products machine operators</b>
81317	81530	Operator, dehydrator: oilfield	81321	73440	Developer (film/photo/x-ray film/ photographic plate)/
81317	81540	Operator, distiller: batch (chemical processes except petroleum and natural gas)	81321	73440	Enlarger (photograph)
			81322	73440	Darkroom worker (film/photograph printing)
			81323	73444	Operator (paco-machine/ photo line)
			81323	73444	Printer, (projection/ film/photo)
			81323	73444	Processor, film

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81323	73444	Registerer, photo	81411	82310	Cureman ( foam rubber
81323	73444	Repairer/Joiner, film	81411	82310	Curer pan (rubber)
81324	82240	Machine-operator (paper production/ plate production/ photographic products)	81411	82311	Extruder, tread (rubber)
81324	82240	Machine-operator ,Developing (Motion picture)	81411	82312	Repairer, cover (rubber)/ tyre (machine)
81324	82240	Machine-operator( film/photography (developing/ enlarging/printing)	81411	82310	Bagger (assistant) (rubber product ion)
81325	73440	Developer, negative: black-and-white	81411	82310	Masticator (rubber)
81325	73440	Developer, negative: colour	81411	82310	Mill man (rubber manufacturing)
81325	73440	Developer, photograph: black-and-white	81411	82310	Mixer, (ban bury/ mill (rubber)/ tar (rubber)
81325	73440	Developer, positive: black-and-white	81411	82310	Warmer, refiner (rubber)
81325	73440	Developer, positive: colour	81412	82310	Operator (calendar (rubber)/ refiner (rubber)/ rubber processing plant/ rubber reclamation)
81325	73440	Developer, print	81412	82310	Operator, machine: rubber products
81326	82240	Operator, machine: photographic film	81412	82310	Press-operator, rubber manufacturing
81326	82240	Operator, machine: photographic film production	81412	82310	Press-operator, rubber-embossing
81326	82240	Operator, machine: photographic products	81413	82311	Builder, bead (tyre-making)/
81326	73440	Processor, photographic	81413	82311	Moulder, kynock (cycle cover)/ summit press (other covers)/
81326	73440	Technician, darkroom	81413	82311	Press-operator, tyre moulding
81326	73440	Worker, darkroom: photograph enlarging	81414	82310	Machine-operator (coating / compounding / extruding / milling) (rubber )
<b>8141</b>		<b>Rubber products machine operators</b>	81414	82310	Machine-operator (moulding/processing/ calenderer / dipping/ dough and solution(rubber)
81411	82310	Cutter (rubber) / cameron (rubber)	81414	82310	Machine-operator( embossing/ impregnating/ spooling/ spreading/ tanning)( rubber)
81411	82312	Debagger (rubber production)			Treater (latex)
81411	82310	Foreman, rubber			
81411	82310	Foreman, rubber goods			
81411	82312	Coagulator, latex			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81414	82311	Machine-operator , tyer (moulding/ rebuilding/production/vulcanising/ cycle tube production)	81427	82320	Machinist, plastic products
81415	82310	Vulcanizer	81427	82320	Moulder, plastic
81415	82312	Machine-operator( patch making/ vulcanising (rubber goods except tires)/ rubber stamp production)	81428	82320	Operator, machine: blowing (plastic bottle)
<b>8142</b>		<b>Plastic products machine operators</b>	81428	82530	Operator, machine: cellophane bag production
81421	82320	Blender, (plastics)	81428	82320	Operator, machine: plastic cable making
81421	82320	Foreman ,plastic products	81428	82320	Operator, machine: polythene bag production
81421	82320	Miller, (plastics)	81428	82320	Operator, press: laminated (plastics)
81421	82320	Mixer (cellophane bath)	<b>8143</b>		<b>Paper products machine operators</b>
81422	82320	Finisher, (plastics)	81431	82530	Foreman ,paper products
81422	82320	Polisher, (plastics)	81431	82531	Machine-operator cardboard products/ lining (cardboard)
81423	82320	Machine-operator (finishing/ injection moulding/ laminating/ moulding) (plastics)	81431	82530	Machine-operator envelope and paper bag production/ paper box production/ paper products)
81423	82320	Machine-operator( cutting/ drilling/ etching/ extruding/fabrication) (plastics)	81431	82530	Machine-operator (embossing (paper)/ paperboard products)
81423	82320	Machine-operator( grinder/ seasoner, (plastics/ plastic products)	81431	82530	Machine-operator (Production /cutting /folding/bending(paper box)
81423	82320	Machine-operator, (buffing/carving/ casting / compression moulding)( (plastics)	81432	82532	Machine-operator, (cellophane bag production/ polythene bag production)
81424	82320	Mechanic, bench (plastics)	81433	82530	Press-operator, cardboard / cutting and creasing (paper box)
81425	82320	Press-operator, mould (plastic)	81434	82530	Moulder, <b>paper-mâchine</b>
81426	82320	Welder, heat (plastic)	<b>8151</b>		<b>Fibre preparing, spinning and winding machine operators</b>
81427	82320	Builder, plastic boat	81511	82610	Attendant, breaker (jute)
81427	82320	Drawer, fiber: optic			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81511	82610	Cleaner, card (textile)	81514	82610	Shaker, dust/
81511	82610	Condenser man, wool	81514	82610	Softener attendant (jute)/
81511	82610	Coverer, flat	81514	82610	Tenter (textiles)/
81512	82610	Finisher ,attendant (jute)	81515	82611	Spinner (ring wool/ jute/ silk)
81512	82610	Finisher ,card tenter (cotton)	81515	82612	Winder (colour and art silk/ pirn/ cheese (textile)
81512	82610	Framer ,sett(silk)	81516	82612	Baller ( thread and yarn)
81512	82610	Gasser (yarn)	81516	82612	Double sider ( rings (cotton)/ wool/ jute
81512	82610	Giller	81516	82611	Maser, tufting )
81512	82610	Ginner	81516	82612	Picker, waste (fibre)/
81512	82610	Grinder, roller (textile)	81516	82612	Piecer (textile)/
81513	82610	Machine-operator ((mixing and cleaning / scouring and driving (wool))	81516	82612	Reeler ( jute/wool/ silk)
81513	82610	Machine-operator ( blowing (fibre treating)/( brushing/ picking (fibre))	81517	82610	Conditioner, yarn
81513	82611	Machine-operator ( spinning/ roving-frame/ drawing-frame (synthetic fibre))	81517	82610	Mistry, wool
81513	82612	Machine-operator ( spooling / twining/ twisting/ winding/ doubling)	81518	82611	Foreman,winding&twisting(textile)
81513	82610	Machine-operator (blending / combing / preparing / washing(textile fibres)	81518	82611	Foreman.spinning(textile )
81513	82610	Machine-operator (lapping (ribbon/sliver/fibres)	81518	82610	Operator, machine: roving-frame (textile fibres)
81513	82610	Machine-operator ,flate grinder	81518	82610	Operator, machine: washing (textile fibres)
81513	82610	Machine-operator ,sizing (yarn)	<b>8152</b>		<b>Weaving and knitting machine operators</b>
81513	82612	Machine-operator( skeining/ reeling / spinning (thread and yarn))	81521	74333	Stripper, bobbin
81513	82611	Operator,frame((thread and yarn spinning)	81521	74323	Setter, knitting-machine
81514	82610	Scutcher tenter/	81521	74323	Setter.loom(lace machine)
			81521	74320	Tufter, carpet weaving
			81522	82620	Bander (textile)
			81522	82620	Beainer, assistant
			81522	82620	Beamer (cotton/silk/jute)
			81523	82620	Bobbin man

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81523	82620	Cutter , jacquard card	<b>8153</b>		<b>Sewing machine operators</b>
81523	82620	Stocking ribber)	81531	82630	Machine-operator, sewing (upholstery /embroidery/ hats/fur)/ garments/ textile products)
81524	82622	Overlocker			
81524	74320	Threader (loom)	81532	82630	Machine-operator, sewing (leather /leather garments and gloves)
81524	82620	Warper (machine)/beam	81533	82630	Machinist, sewing
81525	82620	Foreman, spinning	<b>8154</b>		<b>Bleaching, dyeing and fabric cleaning machine operators</b>
81525	82620	Foreman, winding and twisting			
81526	82623	Machine-operator jacquard card	81541	82640	Machine-operator, (dyeing (yarn/textile fabrics)
81526	82622	Machine-operator (weaving ((fabrics)/ (jacquard card)/ (laces)/ lacer	81541	82640	Machine-operator waterproofing (cloth/fabric)
81526	82624	Machine-operator carpet production)	81541	82647	Machine-operator raiser (textiles)
81526	82620	Machine-operator copy (pattern cards)/ fringing	81541	82648	Machine-operator silk weighting
81526	82622	Machine-operator embroidery/ crocheting/ button hole	81541	82648	Machine-operator degumming (silk/bleaching (textiles)
81526	82621	Machine-operator knitting (link&link (garments)	81541	82640	Machine-operator, dyeing (fabric)/ garments))
81526	82621	Machine-operator net production/ (knitting (garment/hosiery)	81542	82641	Carboniser (wool)
81526	82620	Machine-operator threading (loom)/ warping (beam (textile weaving)/	81542	82640	Setter (dye)
81526	82620	Machine-operator, cloth production/ drawing-in (textile weaving)	81542	82643	Rangsaz
81527	74320	Fixer, loom	81542	82643	Squeezer (textile),
81527	82621	Foreman (warping/ knitting)	81542	82643	Stretcher, (textile)
81528	82623	Operator, loom (carpet weaving)/ lace production)	81542	82647	Lapper (folding machine man),
81529	82620	Weaver, Power loom( jute/silk/ wool/ cotton)	81542	82647	Miller (textile)
81529	82620	Operator, fibre-preparing, spinning and dinding machine operators n.e.c.	81543	82647	Operator ,calendar (textiles)
			81543	82646	Operator, cleaning equipment carpets)



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81543	82641	Operator, cleaning equipment( cloth/textiles)			(thread and yarn spinning)
81543	82644	Operator, cloth measuring	81553	82650	Operator, machine: cutting (leather)
81543	82642	Operator, fulling-mill (textiles)	81553	82650	Operator, machine: leather preparing
81544	82640	Calenderer, cloth	81553	82650	Operator, machine: leather sewing
81545	82640	Operator, machine: shrinking (textiles)	8156		<b>Shoemaking and related machine operators</b>
81545	82640	Operator, machine: washing (cloth)	81561	82660	Machine-operator, (sewing/ stitching)
81545	82640	Operator, machine: washing (yarn)	81562	82660	Machine-operator, shoe perforating /lasting/ cutter /production (any type)
81545	82640	Operator, press: steam (textiles)	81562	82660	Machine-operator, shoe (leveling/ shoe- closing /pounding
81545	82640	Operator, press: textile	81563	82660	Machinist , leather
8155		<b>Fur and leather preparing machine operators</b>	81564	82660	Operator, machine: footwear production
81551	82650	Machine-operator dehairing	81564	82660	Operator, machine: footwear production (orthopaedic)
81551	82650	Machine-operator (mixing (fur/ fibre)	81564	82660	Operator, machine: footwear production (raffia)
81551	82651	Machine-operator fleshing (hide/pelt)	81564	82660	Operator, machine: footwear production (sports)
81551	82651	Machine-operator processing (hide/pelt)	81564	82660	Operator, machine: shoe production
81551	82651	Machine-operator washing (hide))	8157		<b>Laundry machine operators</b>
81552	82651	Machine-operator (staining/ tanning/ boarding butt striking/ buffing	81571	82641	Machine-operator ( shrinking/ damping/ dry-cleaning (laundering/laundry)
81552	82651	Machine-operator drum scouring and drum setting (leather))	81571	82641	Machine-operator ( washing (laundry)/ (drying/ pressing)/ washing (cloth/yarn))
81552	82651	Machine-operator embossing/ glazing/ polishing/ roller/ sammying/ staking leather)	81571	82640	Machine-operator, (drying(textile),
81552	82651	Stuffer( leather)	81572	82645	Press-operator, steam (laundry),
81553	82650	Machine- operator preparing(fur/pelt)			
81553	82651	Machine- operator , leather preparing			
81553	82651	Machine/operator frame			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81572	82644	Scourer	81601	82710	Machine-operator, canning (meat)
81572	82645	Pressman (textile),	81601	82710	Machine-operator, curing (meat)
81572	82648	Mangler	81601	82711	Machine-operator, fish processing/products
81573	82640	Calenderer, laundry	81601	82711	Machine-operator, freezing (fish)
81574	82640	Operator, cleaning equipment: laundry	81601	82710	Machine-operator, freezing (meat)
<b>8159</b>		<b>Textile, fur and leather products machine operators not elsewhere classified</b>	81601	82710	Machine-operator, meat processing/products
			81601	82711	Machine-operator, preserving (fish)
			81601	82710	Machine-operator, preserving (meat)
81591	82690	Machine-operator pattern-making (fur/leather/textiles),	81601	82711	Machine-operator, sterilising (fish)
81591	82693	Machine-operator, production (textile/mattress / leather)	81601	82710	Machine-operator, sterilising (meat)
81591	82693	Machine-operator blocking (hats),	81601	82710	Machine-operator, washing (carcasses)
81591	82692	Machine-operator braid production	81601	82711	Operator, autoclave (meat and 'fish)
81591	82691	Machine-operator cutting(garments/textile)	81601	82711	Operator, centrifuge (fish oil)
81591	82693	Machine-operator forming (felt hoods))	81602	82720	Emulsifier (dairy products)
81591	82693	Machine-operator hat making	81602	82720	Foreman (dairy products)
81591	82693	Machine-operator production fur/leather/textiles	81602	82720	Machine-operator ,pasteurising (dairyproducts)
81591	82693	Machine-operator shrinking (felt hoods)	81602	82720	Machine-operator, chees emaking
81592	82690	Blocker, hat	81602	82720	Machine-operator, dairy products
81593	82690	Operator, machine: cutting (garments)	81602	82721	Machine-operator, freezing/cooling (dairy products)
81593	82690	Operator, machine: cutting (textiles)	81602	82720	Machine-operator, milk powder production
81593	82690	Operator, machine: tent making	81602	82720	Machine-operator, milk processing
<b>8160</b>		<b>Food and related products machine operators</b>	81602	82720	Operator, churn (butter making)
			81602	82720	Operator, drier (dairy products)
81601	82710	Machine-operator, canning (fish)	81602	82720	Operator, homogeniser(diary product)



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81602	82720	Operator, separator (butter making)	81604	82740	Machine-operator, bread/bakery production
81602	82720	Operator, spray plant (milk processing)	81604	82741	Machine-operator, pastry production
81602	82720	Operator, sterilizer (dairy products)	81604	82745	Operator, mogul (sugar confectionery)
81602	82720	Operator, vacuum pan (condensed milk)	81604	82740	Operator, moulding machine (bakery/confectionery products)
81602	82720	Viscoliser (dairy products)	81605	82752	Blender (oils and fats)
81603	82730	Foreman, miller (grain)	81605	82756	Machine operator, Freezing (fruit/vegetable)
81603	82731	Machine-operator, cleaning (grain)	81605	82750	Machine-operator, canning (fruit/vegetable)
81603	82731	Machine-operator, husking (rice)	81605	82754	Machine-operator, dehydrating (foodstuffs)
81603	82730	Machine-operator, milling (grain/corn)	81605	82754	Machine-operator, drying (foodstuffs)
81603	82732	Machine-operator, milling (mustard seeds)	81605	82752	Machine-operator, edible (oil production)
81603	82732	Machine-operator, milling (spices)	81605	82750	Machine-operator, food processing (fruit/vegetable)
81603	82731	Machine-operator, milling, (rice)	81605	82750	Machine-operator, juice production (fruit/vegetable)
81603	82730	Machine-operator, grain processing	81605	82753	Machine-operator, margarine processing
81603	82733	Machine-operator, hulling/husking (grain)	81605	82752	Machine-operator, milling (oil-seed)
81603	82730	Machine-operator, separating (grain milling)	81605	82752	Machine-operator, refining (oils and fats)
81603	82732	Miller, <b>garammasalah</b>	81605	82750	Machine-operator, washing (fruit/vegetable)
81603	82731	Silkman, grain milling	81605	82751	Machine-operator, blanching (edible nuts)
81604	82740	Dividerman (bakery products)	81605	82751	Machine-operator, nut-grinding
81604	82742	Machine-operator, cereal products	81605	82750	Machine-operator, sterilising (fruit/vegetable)
81604	82743	Machine-operator, chocolate production/products	81605	82752	Mistry, hardening (edible oil)
81604	82745	Machine-operator, confectionery production	81605	82752	Operator, autoclave (oils and fats)
81604	82745	Machine-operator, cutting (sugar confectionary)	81605	82753	Operator, churn (margarine)
81604	82745	Machine-operator, enrobing (sugar, confectionary)			
81604	82744	Machine-operator, noodle production			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81605	82754	Operator, evaporation equipment (food essences)			(continuous refining)
81605	82754	Operator, hydrogenation equipment (oils and fats)	81606	82760	Press-operator, pulp (sugar beet)
81605	82755	Operator, vacuum oven (foodstuffs)	81606	82760	Tankman (sugar)
81605	82755	Operator, vacuum pan (food essences)	81607	82771	Machine-operator, blending (tea)
81605	82752	Press-operator, edible oils	81607	82770	Machine-operator, blending (coffee)
81606	82760	Boiler, sugar	81607	82772	Machine-operator, cocoa-bean processing
81606	82760	Crusher man (sugar)	81607	82770	Machine-operator, coffee-bean processing
81606	82760	Fireman, kiln (sugar)	81607	82771	Machine-operator, tea-leaf processing
81606	82760	Foreman, filtration (sugar)	81607	82772	Operator, roasting equipment (cocoa-bean)
81606	82760	Foreman, melt house(sugar)	81607	82770	Operator, roasting equipment (coffee)
81606	82760	Foreman, mill platform(sugar)	81607	82772	Winnower, cocoa-bean
81606	82760	Foreman, pulphouse (sugar)	81608	82781	Carbonationman, malt liquor
81606	82760	Foreman, refining (sugar)	81608	82781	Compounder, wine
81606	82760	Machine-operator, refining (sugar)	81608	82780	Foreman, brewing
81606	82760	Machine-operator, sugar production	81608	82781	Kettleman, malt liquor
81606	82760	Operator, battery (sugar)	81608	82784	Kiln-operator, malting (spirits)
81606	82760	Operator, carbonation equipment (sugar refining)	81608	82782	Machine-operator, blending (spirits)
81606	82760	Operator, centrifugal (sugar)	81608	82781	Machine-operator, blending (wine)
81606	82760	Operator, crystallizing equipment (sugar refining)	81608	82780	Machine-operator, brewing (spirits)
81606	82760	Operator, granulator (sugar)	81608	82782	Machine-operator, distilling (spirits)
81606	82760	Operator, grinding equipment (sugar-cane)	81608	82782	Machine-operator, liqueur production
81606	82760	Operator, melter (sugar)	81608	82784	Machine-operator, malting (spirits)
81606	82760	Operator, melthouse drag (sugar)	81608	82783	Machine-operator, soft-drinks production
81606	82760	Operator, screen (sugar refining)	81608	82786	Machine-operator, vinegar making
81606	82760	Operator, sugar processing equipment	81608	82787	Machine-operator, washing (bottles)
			81608	82785	Mashman (yeast production)
			81608	82781	Operator, clarifier (wine)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81608	82782	Operator, cooking equipment (malt)			tobacco)
81608	82781	Operator, cooling machine (malt liquor)	81609	82780	Maltster
81608	82782	Operator, distiller (brewery)	81609	82750	Operator, autoclave: fruit and vegetables
81608	82785	Operator, fermentation equipment (spirits)	81609	82790	Operator, conditioner (tobacco)
81608	82784	Operator, germination equipment (malting(spirits))	81609	82780	Operator, cooking equipment: malt
81608	82784	Operator, malt house (malt liquor)	81609	82760	Operator, diffuser: beet sugar
81608	82783	Operator, soda plant	81609	82790	Operator, hopper (cigarettes)
81608	82781	Operator, winemaking plant	81609	82790	Operator, leaf department (tobacco)
81608	82784	Oven man (malt roaster)	81609	82780	Operator, machine: distilling (spirits)
81608	82784	Pasteurizer (malt liquor)	81609	82740	Operator, machine: pasta production
81608	82781	Pumper (brewery)	81609	82710	Operator, machine: preserving (fish)
81608	82784	Soda room man (liquors)	81609	82750	Operator, machine: preserving (fruit)
81608	82784	Steeper, making	81609	82750	Operator, machine: preserving (vegetables)
81609	82780	Brewer, operating machinery	81609	82750	Operator, machine: vegetable juice production
81609	82790	Foreman, drying machine (tobacco)	81609	82750	Operator, machine: vegetable processing
81609	82790	Machine-operator ,stripping(tobacco leaf)	81609	82750	Operator, press: edible oils
81609	82790	Machine-operator, (tobacco processing)/product	81609	82750	Operator, press: fruit
81609	82790	Machine-operator, blending (tobacco)	81609	82730	Operator, rolling-mill: spices
81609	82790	Machine-operator, cigar production	81609	82780	Operator, still: spirits
81609	82790	Machine-operator, cigarette production	81609	82790	Operator, vacuum-conditioner (tobacco processing)
81609	82790	Machine-operator, cutting (tobacco leaf)	81609	82720	Salter, cheese
81609	82790	Machine-operator, guardite (tobacco)	<b>8171</b>		<b>Pulp and papermaking plant operators</b>
81609	82790	Machine-operator, stemming (tobacco)			
81609	82790	Machine-operator,blender(tobacco)	81711	81420	Breaker man, rag (paper making)
81609	82790	Machine-operator,cutting(	81711	81430	Finisher, paper
			81712	81420	Mixer ,coating (paper)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81712	81420	Mixer, pulp slurry (wallboard)			plywood core laying)
81713	81421	Coater, paper (tar or asphalt),	81722	81410	Machine-operator (milling/ planning / sawing / seasoning/ shaping)
81713	81430	Tower man (pulp making)			
81714	81420	Foreman, (pulp plant)	81722	81410	Machine-operator (shaving / tempering / dryer /treating / processing)
81715	81420	Machine-operator,( chipping/ grinding/ pulping (paper pulp))	81722	81410	Machine-operator, wood (boring/ cutting/ drilling)
81716	81420	Operator( pulp refiner/ screener (paper pulp))	81723	81411	Operator, (wood-processing plant/ glue kitchen)
81716	81420	Operator, beater/ bleacher/ boiler/ digester	81724	81412	Press-operator, (veneer/ plywood/ hot-plate (plywood))
81717	81430	Machine-operator, coating/ back end/ wet end/ impregnating/ laminating (paper making)	81725	81410	Assembler, plywood panel
81718	81431	Machine-operator, (cardboard production/ hardboard)	81726	81410	Operator, barker
81718	81430	Operator, calender: pulp and paper	81726	81410	Operator, chipper: wood
81718	81430	Operator, combiner/ supercalender/ treating plant (paper production)	81726	81410	Operator, lathe: cutting (veneer)
81718	81430	Operator, machine: papermaking	81726	81410	Operator, lathe: cutting (wood)
81718	81420	Operator, machine: pulping (wood)	81726	81410	Operator, lathe: veneer
81718	81430	Operator, papermaking plant	81726	81410	Operator, machine: cutting (veneer)
81718	81430	Operator, press: hardboard	81726	81410	Operator, planer: sawmill
81718	81420	Operator, repulper	81726	81410	Operator, press: plywood
81718	81430	Operator, sheeter: pulp and paper	81726	81410	Operator, press: veneer
81718	81432	Press operator( hardboard)	81726	81410	Operator, press: waferboard
<b>8172</b>		<b>Wood processing plant operators</b>	81726	81410	Operator, saw: circular
81721	81411	Gluer, veneer sheet	81726	81410	Operator, sawmill
81721	81410	Kiln-operator (wood seasoning)	81726	81410	Operator, trimmer: sawmill
81721	81412	Trimmer, board	81727	81410	Press-operator, plywood
81722	81410	Machine-operator (clipping (veneer)/	81727	81410	Sawyer, edge
			81727	81410	Sawyer, sawmill

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
81727	81410	Sawyer, wood processing plant			(pottery and porcelain)
<b>8181</b>		<b>Glass and ceramics plant operators</b>	81813	81310	Operator, kiln: biscuit (tile)
81811	81310	Attendant, lehr	81813	81310	Operator, kiln: glost (pottery and porcelain)
81811	81310	Checker, lehr (glassmanufacturing)	81813	81310	Operator, kiln: glost (tile)
81811	81311	Attendant, dipping – machine( ceramics decorating)	81813	81310	Operator, kiln: oven (pottery and porcelain)
81812	81310	Foreman, bottle machine	81813	81310	Operator, kiln: porcelain
81812	81312	Foreman, burner (brick and tile)	81813	81310	Operator, kiln: pottery
81812	81310	Foreman, formingdepartment	81813	81310	Operator, kiln: retort (brick and tile)
81812	81310	Foreman, glass melting	81813	81310	Operator, kiln: tile
81812	81310	Foreman, mold makers	81813	81311	Bedder, pottery and porcelain
81812	81310	Foreman, mold shop	81813	81311	Emptier, kiln/ware (ceramics)
81812	81310	Foreman, sheet glass	81813	81311	Maker, crucible (saggars)
81812	81310	Foreman, sheet glasscutting	81814	81310	Machine -operator, mold -press (glass)
81812	81310	Furnace-operator, glassproduction	81814	81310	Machine-operator, bending(glass)
81812	81310	Furnace-operator, lehr	81814	81310	Machine-operator, blowing(glass)
81812	81310	Furnace-operator, smelting(glass)	81814	81311	Machine-operator, ceramics production
81812	81310	Furnace-operator, tempering (glass)	81814	81310	Machine-operator, cutting (glass)
81812	81310	Furnace-operator,annealing (glass)	81814	81310	Machine-operator, drawing (glass)
81812	81312	Fireman, pottery oven	81814	81310	Machine-operator, engraving (glass)
81812	81312	Setter-in, kiln (ceramics)	81814	81310	Machine-operator, etching (glass)
81812	81312	Ovenman, pottery and porcelain	81814	81310	Machine-operator, finishing/polishing (glass)
81813	81313	Kiln-operator, brick and tile (any type)	81814	81310	Machine-operator, glass -drawing (horizontal)
81813	81312	Kiln-operator, pottery and porcelain	81814	81310	Machine-operator, glass production/products
81813	81310	Kiln-operator, float-glass bath	81814	81310	Machine-operator, plating (glass)
81813	81310	Lathe-operator, glass	81814	81310	Machine-operator, polishing (glass lens)
81813	81310	Operator, kiln: biscuit	81814	81311	Machine-operator, pottery and porcelain



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		production	81818	81391	Machine-operator,( glass-fibre/ glaze) production
81814	81310	Machine-operator, pressing (glass)	81818	81391	Operator, (crog mill / pug-mill) clay
81814	81310	Machine-operator, rolling (plate-glass)	81818	81390	Operator, machine: grinding (clay)
81815	81311	Operator, die-press (pottery and porcelain)	81818	81390	Operator, machine: mixing (glass)
81815	81310	Operator, ladle (glass)	81818	81390	Operator, machine: mixing (glaze)
81815	81310	Operator, pantograph (glass decorating)	81818	81390	Operator, pug-mill: clay
81815	81310	Operator, sandblasting equipment (glass)	81818	81391	Press-operator, filtering (clay)/ extruding
81816	81310	Machine-operator, bottle production	<b>8182</b>		<b>Steam engine and boiler operators</b>
81816	81311	Machine-operator, casting (pottery and porcelain)	81821	81620	Operator, (steam engine/ boiler (ship))\nBoiler plant (steam))
81816	81310	Machine-operator, drilling (glass)	81822	81621	Fireperson (steam engine (railway)/ boiler plant/ ship (oil))
81816	81311	Machine-operator, drilling (pottery)	81822	81623	Inspector , loco (fuel)
81816	81310	Machine-operator, glass production (rod/tube)	81822	81621	Stoker( ship)
81816	81310	Machine-operator, grinding (glass)	81823	81620	Engineer, stationary
81816	81310	Machine-operator, grinding (lens)	81824	81620	Tender, boiler
81816	81310	Machine-operator, moulding (glass)	<b>8183</b>		<b>Packing, bottling and labeling machine operators</b>
81816	81310	Machine-operator, paint log (glass)	81831	82900	Foreman, packing
81816	81311	Machine-operator, painting (ceramics)	81831	82905	Machine-operator (
81817	81392	Fireman, oven/ (brick and tile)	81831	82900	Machine- operator((wrapping)
81817	81392	Foreman , press operation (mechanical/ brick and tile)	81832	82900	Machine-operator (capping/sealing/ packing/ bottling/ bagging), filling (containers)/ pelletising)
81817	81391	Foreman, clay mixing (mechanical))			Filler, bottle
81817	81390	Foreman, mixing glass	81834	82900	Operator, machine: branding
81817	81392	Machinist (brick)	81835	82900	Operator, machine: marking (goods)
81817	81392	Miller, Wedger, clay			
81818	81391	Machine-operator (			
81818	81391	Machine-operator( clay slips production/ grinding /mixing clay)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>8189</b>		<b>Stationary plant and machine operators not elsewhere classified</b>	82116	82810	Assembler, turbine
81891	82904	Machine-operator (cable/line installation)	82116	82810	Fitter, bench: trucks
81891	82904	Machine-operator (pipe/drain installation)	82116	82810	Installer, engine
81891	82902	Machine-operator (silicon chip production/insulation)	82116	82810	Operator, machine: vehicle assembly
81891	82900	Machine-operator (pelletising)	82117	82810	Assembler, (agricultural machinery/ turbine)
81892	82900	Operator (pelletiser (iron ore)/ marking equipment (roads/goods)/ merry-go-round)	82117	82810	Assembler, machinery (mining/ printing/ textile )
81893	82900	Press-operator baling	82118	82810	Assembler, woodworking
81894	82900	Filler, gas	<b>8212</b>		<b>Electrical and electronic equipment assemblers</b>
81895	82900	Operator, machine: pencil production	82121	82820	Assembler (battery/ electrical components/equipment)
81896	82900	Operator, machine: splicing (cable and rope)	82122	82831	Assembler ( hearing aid/ radio/television)
<b>8211</b>		<b>Mechanical machinery assemblers</b>	82122	82833	Assembler(electronic components/computer)
82111	82810	Assembler, engine (internal combustion, except aircraft and marine engines)	82122	82833	Assembler(electronic instruments/ microelectronics equipment)
82112	82810	Assembler, (aircraft /airframe/ marine)	82122	82832	Assembler(office machinery)
82113	82810	Assembler, machinery (earth-moving/ industrial/mechanical)	82123	82820	Repairman, battery
82114	82811	Machine-operator ( assembly-line (aircraft/ vehicle))	82124	82821	Machine-operator, winding (armature/ filament/ coil)
82115	82811	Machine-operator assembly-line (except vehicles and aircraft)	82125	83830	Assembler (chronometer/clock/watch)
82116	82810	Assembler, engine(steam)/ vehicle/ machine-tool)	82125	83831	Assembler( audio-visual equipment)
82116	82810	Assembler, gearbox	82126	82820	Assembler, armature
82116	82810	Assembler, steam engine	82126	82830	Assembler, electromechanical equipment
			82126	82830	Assembler, hearing aid
			82126	82830	Assembler, microelectronics equipment
			82126	82830	Assembler, precision instrument

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
82126	82830	Assembler, telephone	82196	82900	Builder, box
82127	82830	Etcher, printed circuit board	82197	82860	Finisher, luggage
82128	82830	Winder, filament: operating machine	<b>8311</b>		<b>Locomotive engine drivers</b>
82128	82820	Winder, transformer coil: operating machine	83111	83110	Driver/Driver-assistant, (locomotive/train)
<b>8219</b>		<b>Assemblers not elsewhere classified</b>	83112	83110	Driver, shunting-engine
82191	82850	Assembler, furniture (sheet-metal/ wood and related materials)	83113	83110	Driver, train (elevated/underground)
82192	82861	Assembler leather products	83114	83110	Fireman, locomotive
82192	82862	Assembler paperboard)	83115	83110	Motorman, underground or elevated train
82192	82860	Assembler( textile products	83116	83111	Driver, engine (mine/quarry)
82192	82901	Assembler, products (plastic/ metal/ composite/ tools/ wood /rubber)	83117	83111	Driver, locomotive (mine/quarry)
82193	82842	Joiner, ply (rubber)	83118	83110	Driver, metropolitan railway
82194	82843	Assembler Gluer, plastic products	83118	83110	Driver, monorail
82195	82900	Assembler, ammunition	<b>8312</b>		<b>Railway brake, signal and switch operators</b>
82195	82840	Assembler, bicycle	83121	83120	Brakeman/Breaker, (railway yard/ train)
82195	82860	Assembler, cardboard products	83122	83122	Ballast man (railway)
82195	82900	Assembler, door	83122	83121	Cabin man
82195	82840	Assembler, eyeglass frame	83122	83121	Flagman
82195	82840	Assembler, jewellery	83122	83121	Points man, (railway
82195	82840	Assembler, knife	83123	83122	Coupler
82195	82860	Assembler, leather products	83123	83124	Guard ( goods train)
82195	82860	Assembler, paperboard products	83123	83122	Switch tender (railway yard)
82195	82840	Assembler, pen and pencil	83123	83122	Trainman
82195	82840	Assembler, plastic toy	83124	83121	Shunter, Train
82195	82860	Assembler, sun-blinds	83125	83121	Signaller, Train
82195	82840	Assembler, thermos bottle	83126	83121	Master, Shunting
			<b>8321</b>		<b>Motorcycle drivers</b>



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
83211	83210	Driver (motor cycle)	83314	83231	Driver (trolley-bus/ tramcar)
83212	83210	Driver (motor tricycle)	83314	83231	Motorman ,tramcar
83213	83211	Dispatch Rider	83315	83230	Driver, coach
<b>83213</b>	<b>83211</b>	<b>Driver Dispatch</b>	<b>8332</b>		<b>Heavy truck and lorry drivers</b>
83214	83210	Courier, motorcycle	83321	83240	Driver (truck)
83215	83210	Deliverer, motorcycle	83322	83241	Driver (lorry)
83216	83210	Messenger, motorcycle	83323	83242	Driver (tanker)
83217	83210	Motorcyclist	83324	83240	Driver (dumper)
<b>8322</b>		<b>Car, taxi and van drivers</b>	83325	83243	Operator, shuttle-car (mine/quarry)
83221	83220	Car driver	83326	83240	Driver, concrete mixer
83221	83220	Driver (car/ motor vehicle)	83326	83240	Driver, garbage truck
83221	83221	Valet parking	83326	83240	Driver, heavy goods vehicle
83222	83223	Driver (ambulance)	83326	83240	Driver, road train
83223	83221	Driver ( taxi (motor tricycle)/cab)	83326	83240	Driver, semi-trailer
83223	83221	Taxi driver	83326	83240	Driver, trailer-truck
83224	83220	Driver (car – delivery)	83326	83240	Driver, train: road
83224	83222	Driver (van/ mail van)	83326	83240	Driver, truck: heavy
83225	83220	Chauffeur, motor-car	83327	83240	Fueller, aircraft
83225	83220	Courier, driving car	<b>8341</b>		<b>Mobile farm and forestry plant operators</b>
83225	83220	Courier, driving van	83411	83310	Driver (tractor)
83226	83220	Deliverer, driving car	83411	83311	Driver( lumber carrier/ timber carrier)
83226	83220	Deliverer, driving van	83412	83310	Operator (agricultural machinery)
83227	83220	Messenger, driving car	83412	83310	Operator (Harvester/ motorised farm equipment/ thresher)
83227	83220	Messenger, driving van	83412	83310	Operator ,Baler (farm)
<b>8331</b>		<b>Bus and tram drivers</b>	83412	83310	Operator ,Combiner (agricultural)
83311	83230	Bus driver	83413	83310	Operator ( forestry machinery/motorized
83311	83230	Driver (bus)			
83312	83230	Driver (streetcar)			
83313	83231	Driver (tram)			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
		equipment)	83427	83321	Operator, spreader (concrete/ asphalt)
83414	83310	Operator, logging plant	83427	83321	Operator, strike off machine (concrete paving)
83415	83310	Operator, tree faller	83427	83320	Operator, front-end loader
<b>8342</b>		<b>Earthmoving and related plant operators</b>	83427	83320	Operator, grader and scraper: construction
83421	83320	Operator, dragline	83427	82900	Operator, machine: drain installation
83421	83320	Operator, dragline-bucket	83427	83324	Operator, tamping machinery (construction)
83421	83322	Operator, dredge	83427	83322	Operator, tunneling machinery (construction)
83421	83320	Operator, pile-driver	83427	83325	Operator, air drill (construction)
83421	83321	Operator, concrete finishing machine (road paving)	83427	83325	Operator earth-boring machinery construction
83421	83321	Operator, road surface laying machinery	83428	83325	Operator, drilling plant
83421	83320	Operator, road surface laying machine	83428	83320	Operator, snow groomer
83421	83325	Operator, pneumatic drill	83428	83320	Operator, spreader: stone (construction)
83422	83321	Operator, paving machinery (bituminous/concrete)	<b>8343</b>		<b>Crane, hoist and related plant operators</b>
83423	83321	Attendant, sand stowing hopper	83431	83330	Crane-operator ((bridge)/ (crawler)/ (floating))
83424	83320	Operator, spreader: tar	83431	83330	Crane-operator ,(locomotive)/ (mobile)/ (railway)
83424	83321	Driver, tar-spreading machine	83431	83330	Crane-operator ,(stationary jib)/ (tower)/ (tractor)/ portal)
83425	83322	Driver/operator, excavating machine	83432	83330	Driver (overhead crane/ stripper crane/ hoist machine)
83425	83320	Driver/operator, shovel (mechanical)	83432	83330	Driver, cable railway
83425	83322	Driver/operator, digger (trench digging)	83432	83330	Driver, cage: mine
83426	83320	Driver/operator, bulldozer	83432	83330	Driver, funicular
83426	83320	Driver, steamroller	83432	83330	Driver/operator, cage (mine)
83426	83320	Driver, streetsweeper	83432	83330	Onsetter, mine
83426	83320	Operator, streetsweeper			
83426	83323	Driver/operator, road, grader and scraper			
83426	83326	Driver/operator, road roller			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
83433	83331	Hoist-operator ((construction)/ (mine)/ (tugger))	83437	83330	Operator, roller coaster
83433	83337	Operator (capstan/ sluice (dock))	83437	83330	Operator, ski-lift
83433	83334	Operator ,boat (derrick)	83438	83330	Tender, skip
83433	83335	Operator ,chair-lift/cable car	<b>8344</b>		<b>Lifting truck operators</b>
83433	83336	Operator ,ropeway (aerial)/ winch/	83441	83340	Driver, Broadbent charger
83433	83332	Operator, (conveyer)	83442	83340	Operator, truck (fork-lift/ industrial)
83433	83333	Operator, bridge (any type)	83443	83341	Charger machineman, (rolling mill)
83433	83336	Operator, donkey engine			
83433	83336	Operator, elevator (material-handling)	<b>8350</b>		<b>Ships' deck crews and related workers</b>
83433	83338	Operator, turntable (railway)/ weighbridge)/ lock (canal or port)	83501	83400	Bargeman
83434	83336	Attendant, elevator	83501	83400	Boatman (any type)
83434	83336	Banks man, mine	83501	83400	Boatswain
83434	83336	Gunner (crane)	83501	83400	Ferryboat man
83434	83338	Lock-keeper (canal or port)	83501	83400	Hand, deck
83434	83331	Pan man (assistant) (rubber manufacturing)	83502	83400	Coxswain, lifeboat
83435	83336	Onsetter (mine)/ Winding engineman (mine)	83502	83400	Crewman, dredger/yacht
83435	83336	Pressman, hydraulic	83503	83400	Life boatman
83435	83336	Slinger (crane)	83503	83400	Sailor
83436	83337	Attendant (dry dock)	83503	83400	Seaman (able/ ordinary)
83436	83337	Master, (dry dock)	83503	83400	Secunny
83436	83337	Sluice man, dock	83503	83400	Serang
83437	83330	Operator, cable railway	83504	83400	Tindal
83437	83330	Operator, funicular	83504	83400	Tindal (engine room)
83437	83330	Operator, lock: canal or port	83505	83402	Light shipman
83437	82900	Operator, machine: electrical line installation	83505	83401	Ship's boy
83437	82900	Operator, merry-go- round	83505	83400	Waterman
			83506	83400	Hand, cable-ship
			83506	83400	Hand, ferry

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
83506	83400	Hand, tug	91126	91320	Charworker, restaurant
83507	83400	Operator, barge	91127	91320	Cleaner, hospital
83507	83400	Keeper, lighthouse	91127	91320	Contractor, cleaning
<b>9111</b>		<b>Domestic cleaners and helpers</b>	91128	91320	Maid, chamber
			91128	91330	Maid, linen
91111	91310	Bearer	91128	91320	Sweeper, floor
91111	91310	Gentleman's man	<b>9121</b>		<b>Hand launderers and pressers</b>
91112	91310	Charworker (domestic)			
91113	91310	Houseboy	91211	91330	Aid, (laundry/ linen)
91113	91310	Housemaid	91211	91330	Maid (laundry/ linen)
91114	91310	Helper ,domestic (parlour /kitchen)	91211	91330	Starcher
91115	91310	Maid ,parlour	91212	91330	Dhobi
91116	91311	Cleaner, domestic	91212	91330	Launderer (hand)
<b>9112</b>		<b>Cleaners and helpers in offices, hotels and other establishments</b>	91212	91330	Washer, hand (laundry)
			91213	91330	Dryer, hand (laundry)
			91213	91331	Ironer(hand)
91121	91320	Chambermaid	91214	91330	Cleaner, dry: hand
91121	91320	Charworker (non-domestic)	91215	91331	Presser (hand)
91122	91321	Cleaner (bus/train/aircraft/ garage)	91216	91330	Spotter, dry-cleaning
91122	91321	Cleaner and helper (factory/ office/ hotel/furniture/ turbine)	<b>9122</b>		<b>Vehicle cleaners</b>
91123	91322	Attendant (laboratory)	91221	91420	Cleaner, vehicles (hand)
			91221	91420	Washer, vehicles (hand)
91123	91322	Attendant (laboratory)	91222	91428	Car detailer
91124	91325	Khalasi (personal services/ survey)	91223	91420	Detailer, aircraft
91125	91321	Frash	91224	91420	Detailer, boat
91125	91325	Jamadar	91225	91420	Detailer, car
91125	91325	Naib Qusid	91226	91420	Detailer, caravan
91125	91325	Peon	91226	91420	Detailer, vehicles
91126	91320	Charworker, hotel	<b>9123</b>		<b>Window cleaners</b>
91126	91320	Charworker, office	91231	91421	Cleaner, window

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
91232	91420	Washer, window	<b>9211</b>		<b>Crop farm labourers</b>
<b>9129</b>		<b>Other cleaning workers</b>	92111	92110	Labourer, farm (casual/seasonal)
91291	91321	Carpet cleaner	92112	92110	Hand, harvest
91292	91321	Swimming pool cleaner	92112	92110	Helper (farm)
91293	91321	Cooling tower (Air conditioner) cleaner	92112	92110	Labourer, farm (field crops)
91294	91320	Blaster, water: cleaning	92113	92110	Cutter (cotton/ fruit/ tea/ herbs/ vegetables/ sugar cane)
91294	91320	Cleaner, cooling tower	92113	92110	Picker, (cotton/ fruit/tea)
91294	91320	Cleaner, drain	92113	92110	Planter, cane
91294	91320	Cleaner, dry: carpet	92114	92110	Hand, farm: cotton picking
91294	91320	Cleaner, filter	92114	92110	Hand, farm: field crops
91294	91320	Cleaner, graffiti	92114	92110	Hand, farm: fruit picking
91294	91320	Cleaner, gutter	92114	92110	Hand, farm: orchard
91294	91320	Cleaner, pool	92114	92110	Hand, farm: tea plucking
91294	91320	Cleaner, upholstery	92115	92110	Labourer, farm: cotton
91294	91610	Other cleaning worker	92115	92110	Labourer, rice farm
91295	91320	Dry-cleaner, carpet	<b>9212</b>		<b>Livestock farm labourers</b>
91295	91320	Hydro blaster, cleaning	92121	92111	Collector (animal)
91295	91320	Hydro blaster, graffiti removal	92121	92111	Cowboy
91295	91320	Operator, machine: high pressure cleaning	92121	92111	Cowherd Groom
91295	91320	Operator, machine: water blasting	92122	92111	Hand, farm (livestock/ fur-bearing animals/ dairy )
91296	91320	Removalist, graffiti	92123	92111	Labourer, cattle station
91296	91320	Remover, graffiti	92124	92111	Milker (hand)
91296	91320	Serviceperson, filter	92125	92111	Milking-machine operator/ Pastoralist
91296	91320	Serviceperson, swimming pool: cleaning	<b>92126</b>	<b>92110</b>	<b>Stockman (Livestock)</b>
91297	91320	Technician, carpet cleaning	92126	92110	Stable lad
91297	91320	Technician, pool: cleaning	92127	92110	Collector, egg
91297	91320	Technician, swimming pool: cleaning	92127	92110	Groom, horse

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
92127	92111	Groom,stud	92146	92110	Lopper, tree
92127	92110	Hand, farm: silk worms	92146	92110	Pruner, tree: garden maintenace
92127	92110	Hand, stable	92146	92110	Treelopper
92127	92110	Labourer, ranch	92146	92110	Trimmer, tree: garden maintenance
92127	92110	Lass, stable	92146	92110	Worker, garden
<b>9213</b>		<b>Mixed crop and livestock farm labourers</b>	92146	92110	Worker, garden maintenance
92131	92111	Farm labourer (Mixed crop and livestock)	92146	92110	Worker, maintenance: gardening
92132	92110	Helper, farm	92146	92110	Worker, nursery: horticulture
92133	92110	Labourer, farm	92146	92110	Worker, plant nursery
<b>9214</b>		<b>Garden and horticultural labourers</b>	<b>9215</b>		<b>Forestry labourers</b>
92141	61130	Baildar/ Nursery	92151	92120	Forestry labourer
92141	61130	Labourer	92152	92120	Axeman
92142	61130	Garden labourer	92152	92120	Stump-grubber
92143	61130	Horticultural labourer	92152	92120	Tree planter
92144	92110	Assistant, gardener's	92153	92120	Chokerman
92144	92110	Assistant, greenkeeper's	92153	92120	Chokerwoman
92144	92110	Assistant, horticultural nursery	92154	92120	Clearer, tree
92144	92110	Contractor, lawnmowing	92155	92120	Climber, tree
92144	92110	Contractor, mowing	92156	92120	Swamper, logging
92144	92110	Cutter, lawn	92157	92120	Worker, timber: forestry
92145	92110	Hand, garden	<b>9216</b>		<b>Fishery and aquaculture labourers</b>
92145	92110	Hand, nursery: horticulture	92161	92130	Beachcomber
92145	92110	Hand, plant nursery	92161	92130	Gatherer, seaweed
92145	92110	Labourer, cemetery: gardening	92161	92130	Gatherer, shellfish
92145	92110	Labourer, council: gardening	92161	92130	Labourer (fishery)
92145	92110	Labourer, nursery	92162	92131	Labourer, hunting
92145	92110	Lawnmower	92163	92132	Labourer, trapping
			92164	92130	Labourer, aquaculture

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
92165	92130	Labourer, fish farm			<b>labourers</b>
<b>9311</b>		<b>Mining and quarrying labourers</b>	93131	93130	Carrier, bricks
93111	93110	Digger (chalk, clay gravel or sand)	93131	93130	Carrier, hod
93112	93110	Hauler (mining)	93131	93130	Hoddie
93112	93110	Labourer digging (mining and quarrying)	93132	93130	Handyman (building maintenance)
<b>9312</b>		<b>Civil engineering labourers</b>	93133	93130	Labourer, builder's
93121	93120	Chainman (surveying)	93133	93130	Labourer, construction (buildings)
93121	93121	Cleaner (karez)	93133	93130	Stacker (building construction)
93121	93120	Clearer, (land)	93134	93131	Labourer, demolition
93122	93120	Labourer, digging (ditch/trench)	93135	93130	Assistant, bricklayer's
93122	93120	Labourer, well (Lube/water)	93135	93130	Assistant, carpenter's
93123	93120	Mazdoor	93136	93130	Mate, bricklayer's
93123	93120	Navvy	93136	93130	Mate, builder's
93124	93120	Mucker (except mine)	93136	93130	Mate, carpenter's
93124	93120	Shoveller	<b>9321</b>		<b>Hand packers</b>
93125	93121	Labourer, maintenance/construction (dams/roads)	93211	93220	Crater, hand
93125	93121	Roadman (surveying)	93211	93220	Bagger, hand
93126	93121	Labourer, plate layer (railways)	93211	93220	Bale man
93126	93121	Repairman, track	93212	93220	Bandagepacker
93126	93121	Trackman, railway	93212	93220	Bundler
93127	93122	Cooly, rig	93212	93220	Khamali
93127	93120	Labourer, earthmoving	93213	93220	Hand packing
93127	93120	Labourer, tube well	93213	93220	Packer (hand)
93128	93123	Digger (ditch/trench/karez)	93213	93220	Worker (packaging)
93128	93123	Gore kun (grave digger)	93213	93220	Wrapper (hand)
<b>9313</b>		<b>Building construction</b>	93214	93220	Labeller, hand
			<b>9329</b>		<b>Manufacturing labourers not elsewhere classified</b>



## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
93291	93220	Bottler (hand)	93296	93224	Attendant (oil tank/ water softener tank)
93291	93220	Cellarhand, wine production	93296	93222	Blocker out (glass)
93291	93220	Hand, cellar: wine production	93296	93220	Boxer(hand packing)
93291	93220	Hand, factory	93296	93221	Labourer, manufacturing
93291	93220	Handler, material: manufacturing	93296	93224	Mixer (size, textiles/ water proof solution)
93291	93220	Labourer, factory	93296	93222	Operator ,ripping machine(tobacco)
93291	93221	Sorter, (bottle/ Rag)	93296	93222	Operator, splitting , machine(tobacco)
93291	93210	Winder, filament: hand	93296	93223	Presser(glass)
93292	93221	Doffer, cloth	93296	93220	Striker (blacksmith)
93292	93221	Duster (tyre)	93296	93221	Trimmer (rubber)
93292	93221	Grainer (zinc)	93297	93222	General worker, leaf department (tobacco)
93292	93221	Hand, cannery	93298	93211	Assistant, workshop
93292	93221	Hand, shuttle	93298	93210	Charger /Re-charger (battery)
93293	93221	Bubble cooler (glass manufacturing)	93298	93221	Kierman (bleaching)
93293	93220	Mould catcher (glass manufacturing)	93298	93221	Labourer, wine production
93293	93222	Press cutter (glass manufacturing)	93298	93221	Lamp man
93293	93221	Sand washer (glass manufacturing)	93298	93225	Lifter, jack
93294	93223	Joiner, thread (rubber)	93298	93223	Maker, pot (tubes)
93294	93221	Pegging boy (textiles)	93298	93223	Moulder, autoclave
93294	93221	Starch mixer	93298	93210	Repairman ( armature/ coil/ transformer/ assembling)
93294	93221	Table man (textiles)	93298	93210	Winder ,coil/armature(hand)
93295	93221	Operator, proofing	93298	93210	Winder(rotor/stator/transformer)(hand)
93295	93220	Reacher (drawer in assistant)	93298	93210	Winder(rotor/stator/transformer)(hand)
93295	93221	Supplier, type	<b>9331</b>		<b>Hand and pedal vehicle drivers</b>
93295	93223	Washer,hand(hide)	93311	93310	Berther, dock
93295	93223	Washer, hand (carcass/ cloth/yarn/ fiber/ manufacturing process )	93312	93310	Driver, rickshaw
93295	93220	Repairer (reed/heald/ plastic)	93312	93310	Driver, tricycle (non-motorised)

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
93312	93310	Rickshaw boy	93333	93331	Porter (goods-loading / cold-storage
93313	93310	Pedal vehicle driver	93333	93331	Porter( food/fruit market/ warehouse/ shop)/fish /meat)
93313	93310	Rider ,bicycle	93334	93330	Mover, furniture( <b>houseold goods</b> )
93313	93310	Rider, tricycle	93334	93330	Remover furniture, household goods
93314	93310	Cyclist, except racing	93335	93333	Loader (aircraft/ ship (also gasses/liquids)/ cargo/ furniture)
93314	93310	Deliverer, bicycle	93335	93333	Longshoreman
<b>93315</b>	<b>93310</b>	<b>Driver, rickshaw: cycle</b>	93335	93330	Stevedore
<b>93315</b>	<b>93310</b>	<b>Driver, hand truck</b>	93336	93333	Loader, railway and road vehicle
93316	93310	Driver, rickshaw: foot	93337	93330	Attendant, airport: handling baggage
93316	93310	Driver, taxi: bike	93337	93330	Handler, baggage
93317	93310	Messenger, bicycle	93337	93330	Loader, boat
93317	93310	Puller, rickshaw	93337	93330	Unloader, freight
93317	93310	Tricyclist;	<b>9334</b>		<b>Shelf fillers</b>
<b>9332</b>		<b>Drivers of animal-drawn vehicles and machinery</b>	93341	93330	Assistant, cabinet: supermarket (filling shelf, fridge or freezer)
93321	93320	Driver, farm equipment (non-motorised)	93341	93330	Assistant, evening fill
93322	93321	Driver, animal-drawn vehicle (mine/quarry)	93341	93330	Filler(stock)
93323	93322	Driver, animal-drawn vehicle (road transport)	93341	93330	Handler (stock )
93324	93321	Driver (tonga/ Gadha Gari/ Rehra)	93342	93330	Assistant, grocery: filling shelf, fridge or freezer
93325	93322	Mahout	93342	93330	Assistant, merchandise: filling shelf, fridge or freezer
93326	93321	Driver,camel/moule/elephant	93342	93330	Assistant, nightfill
93327	93321	Driver ,baggi	93342	93330	Assistant, sales: filling shelf, fridge or freezer
93328	93322	Horse driver ,road transport	93342	93330	Assistant, sales: nightfill
<b>9333</b>		<b>Freight handlers</b>	93342	93330	Assistant, sales: supermarket (stock control)
93331	91620	Coalman	93343	93330	Captain, night: supermarket
93331	93330	Docker			
93331	93330	Freight handler			
93332	93331	Cooly			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
93343	93330	Filler, day	94121	91323	Kitchen helper
93343	93330	Filler, evening	94121	91323	Masalchi
93343	93330	Filler, night	94122	91324	Hand dish washer
93343	93330	Filler, shelf	94123	91320	Attendant, pantry
93343	93330	Nightfiller	94124	91310	Helper, domestic (parlour/kitchen)
93344	93330	Packer, night fill	94124	91320	Porter, kitchen
93344	93330	Packer, shelf	94125	91320	Steward, kitchen
93344	93330	Refiller, filling shelf, fridge or freezer	94125	91320	Stewardess, kitchen
93344	93330	Replenisher, shelf	<b>9510</b>		<b>Street and related service workers</b>
93344	93330	Replenisher, stock			
93345	93330	Stacker, shelf	95101	91200	Polisher, shoe
93345	93330	Stocker, shelf	95101	91200	Shiner. shoe
93345	93330	Worker, night fill	95102	91201	Errand boy
<b>9411</b>		<b>Fast food preparers</b>	95103	91202	Billposter
94111	51220	Cook (fast food/ short order)	95104	91200	Free newspaper distributor
94111	51220	Cook, hamburgers	95104	91200	Leaflet distributor
94111	51220	Cook, pizza	95105	91200	Car guard
94111	51220	Cook, take away	95105	91200	Car window washer
94112	51220	Hand, pizza	<b>9520</b>		<b>Street vendors (excluding food)</b>
94112	51220	Maker, pizza			
94113	51220	Handler, food: fast food	95201	91120	Hawker
94114	51220	Maker, burger	95201	91120	Newsvendor
94114	51220	Maker, fast food	95201	91120	Pedlar
94114	51220	Maker, hamburger	95201	91120	Vendor (newspapers)
94115	51220	Member, team: fast food (cooking)	95202	91120	Salesman (outside)
94115	51220	Trainer, crew: fast food	95202	91120	Tinker
<b>9412</b>		<b>Kitchen helpers</b>	95203	91120	Vendor, street (non-food products)
94121	91323	Kitchen assistant	95204	91121	Vendor, theatre programme/ stamp
94121	91323	Kitchen hand			

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015 1994			2015 1994		
<b>9611</b>		<b>Garbage and recycling collectors</b>	<b>9621</b>		<b>Messengers, package deliverers and luggage porters</b>
96111	91610	Collector (garbage/refuse/material)	96211	91510	Attendant (telephone/lift)
96111	91611	Dustman	96211	91512	Bellboy
96112	91610	Dealer, scrap	96211	91510	Bellhop
96112	91610	Labourer, recycling	96211	91511	Liftman
96112	91610	Loader, garbage truck	96212	91510	Deliverer (hand/newspapers)
<b>9612</b>		<b>Refuse sorters</b>	96212	91510	Deliveryman
96121	91610	Recycling worker	96213	91510	Messenger (postal)
96121	93210	Scrap merchant	96213	91510	Office, Post-runner
96121	91610	Waste picker	96214	91513	Porter, goods loading (railway and road vehicles)
96121	91610	Refuse sorter	96215	91513	Caddie (golf)
96122	91610	Sorter, garbage	96215	91513	Carrier
96122	91610	Sorter, recycling	96215	91513	Palleydar (coolie)
96122	91610	Sorter, refuse	96215	91513	Porter (luggage/shunting/ hotel/ lobby)
96122	91610	Merchant, scrap	96216	91515	Basta bardar
96122	91610	Picker, recycling	96216	91510	Bellgirl
<b>9613</b>		<b>Sweepers and related labourers</b>	96216	91510	Boy, messenger
96131	91620	Khakrob	96216	91512	Cellarman
96131	91620	Sweeper	96216	91510	Courier, on foot
96131	91620	Sweeper (park/street/yard)	96217	91510	Deliverer, leaflets
96132	91620	Sweeper (sewerage cleaner)	96217	91510	Deliverer, on foot
96133	91620	Inspector,platform(cleanliness)	96218	91510	Girl, messenger
96133	91620	Sweeper (factory machines)	96218	91510	Messenger
96134	91620	Cleaner, park	96218	91510	Messenger, office
96134	91620	Cleaner, street	96218	91510	Messenger, on foot
96135	91620	Scavenger	96218	91510	Messenger, telegraph
			96218	91510	Runner, messages

## Part-5: Unit Groups and Occupational Titles in Numerical Order

2015	1994		2015	1994	
<b>9622</b>		<b>Odd job persons</b>	<b>96235</b>	91531	Duty jugalie
96221	91621	Labourer (odd-jobbing)	<b>9624</b>		<b>Water and firewood collectors</b>
96221	91621	Odd-job person	96241	91620	Firewood collector
96222	91510	Attendant, cellar: hotel	96242	91310	Bhishti (water carrier)
96222	91510	Attendant, cellar: restaurant	96242	91620	Water collector
96223	91510	Cellarhand, hotel	<b>9629</b>		<b>Elementary workers not elsewhere classified</b>
96223	91510	Cellarhand, restaurant			
96223	91510	Cellarman, restaurant	96291	91521	Usher
96224	91510	Hand, cellar: hotel	96292	91524	Attendant (amusement park) fairground)
96224	91510	Hand, cellar: restaurant			
96225	91620	Handyman	96292	91525	Attendant( fun-fair/ cloakroom/ lavatory/ rest-room/ parking lot)
96225	91620	Handyperson	96292	91525	Parker
96225	91620	Handywoman	96293	91521	Custodian
96226	91620	Useful, hotel	96294	91526	Checker ,ticket (non-travel)
<b>9623</b>		<b>Meter readers and vending-machine collectors</b>	96294	91526	Collector, ticket (non-travel)
96231	91531	Inspector (meter)	96295	91520	Attendant, car park
96231	91531	Reader, meter	96295	91520	Attendant, theatre
96232	91530	Collector (coin machine/ vending machine / meter/ turnstile/ money/ tokens)	96296	91200	Billsticker
96233	91531	Pyrometerman (blast furnace)	96297	91200	Poster, bill
96234	91530	Collector, coin meter	96297	91200	Sticker, bill