

MAJOR GROUP 2

PROFESSIONALS

PROFESSIONALS perform analytical, conceptual and creative tasks requiring a high level of intellectual ability and thorough understanding of an extensive body of theoretical knowledge.

Most occupations in this major group have a level of skill commensurate with a 3 year degree or diploma, with some occupations requiring a longer basic degree and/or postgraduate qualifications.

Tasks performed by Professionals typically include conducting and analysing research to extend the body of knowledge in their discipline; developing techniques to apply this knowledge; designing products, physical structures and engineering systems; identifying and treating, or advising on, health, social and personal problems; teaching the theory and practice of one or more disciplines; developing and co-ordinating administrative programmes; and communicating ideas through language and artistic media (including in visual and performing arts).

This major group includes leaders of teams of Professionals whose tasks are primarily of a professional nature but who perform some managerial tasks in respect of the team (e.g. Chief Architect, Chief Civil Engineer).

Chief Accountant and School Principal are excluded from this major group because their tasks are primarily managerial. They are located in Major Group 1, Managers and Administrators.

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

- 21 NATURAL SCIENTISTS**
- 22 BUILDING PROFESSIONALS AND ENGINEERS**
- 23 HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS**
- 24 SCHOOL TEACHERS**
- 25 OTHER TEACHERS AND INSTRUCTORS**
- 26 SOCIAL PROFESSIONALS**
- 27 BUSINESS PROFESSIONALS**
- 28 ARTISTS AND RELATED PROFESSIONALS**
- 29 MISCELLANEOUS PROFESSIONALS**

MINOR GROUP 21 NATURAL SCIENTISTS

NATURAL SCIENTISTS observe, research and analyse natural phenomena; develop techniques and materials for medical, industrial, agricultural, mining and military applications; manage natural resources and advise on the cultivation of plants and animals; and provide information to Medical Practitioners on the diagnosis, treatment and prevention of disease.

Occupations in this minor group have a level of skill commensurate with a 4 year degree and some postgraduate study or training.

Tasks performed by Natural Scientists typically include conducting experiments, examinations and analyses; interpreting and analysing data and results of experiments; developing procedures and equipment for scientific research; and preparing scientific papers and reports.

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

- 2101 CHEMISTS**
- 2103 GEOLOGISTS AND GEOPHYSICISTS**
- 2105 PHYSICISTS**
- 2107 LIFE SCIENTISTS**
- 2109 MEDICAL TESTING PROFESSIONALS**
- 2199 OTHER NATURAL SCIENTISTS**

2101 CHEMISTS

CHEMISTS analyse and research the physical and chemical properties of substances and develop chemical techniques for use in the manufacture or modification of natural substances and processed products.

SKILL LEVEL

The entry requirement for this unit group is an honours degree.

TASKS include:

- conducting experiments to identify chemical composition, energy and chemical changes in natural substances or processed materials
- developing procedures, instruments and recording and testing systems for use in experiments
- analysing results and experimental data
- testing techniques and processes under a variety of conditions to ascertain reliability
- developing quality control procedures for the manufacture of products in plants or factories
- preparing scientific papers and reports

OCCUPATIONS

- 2101-11 Chemist**
Assayer (s)
Chief Chemist (s)
Food Technologist (s)

RELATED OCCUPATIONS

- 2217-17 Materials Scientist

2103 GEOLOGISTS AND GEOPHYSICISTS

GEOLOGISTS AND GEOPHYSICISTS study the nature, composition and structure of the earth and other planetary bodies and of atmospheres and hydrospheres. They use geological knowledge to locate mineral deposits, determine the flow pattern of ocean tides and currents and forecast seismic, magnetic, electrical and thermal activity.

SKILL LEVEL

The entry requirement for this unit group is an honours degree.

TASKS include:

- exploring specific areas of the earth to determine structure and type of rocks and minerals
- measuring gravitational and magnetic fields to determine size, mass and structure of the earth and planetary bodies
- determining structure of earth's mantle and crust using explosion seismology methods
- interpreting remote sensing imagery to identify rock types and structural trends which suggest the presence of features for further investigation
- examining samples (including fossils) from field studies, ground and drillhole surveys using optical, chemical and mechanical laboratory techniques
- analysing and interpreting data derived from laboratory and field studies
- conferring with mining engineers, metallurgists and finance professionals to determine the economics of resource extraction
- preparing scientific papers and reports

OCCUPATIONS

- 2103-11 Geologist**
Chief Geologist (s)
Geochemist (s)

GROUP DEFINITIONS

Mud Logger (s)

2103-13 Geophysicist
Hydrologist (s)
Physical Oceanographer (s)
Seismologist (s)

2105 PHYSICISTS

PHYSICISTS study structure and physical properties of matter, behaviour, relationships and interactions of matter, energy and other physical phenomena, and develop materials, products and processes using knowledge of physics.

SKILL LEVEL

The entry requirement for this unit group is an honours degree.

TASKS include:

- conducting experiments, tests and analyses in fields such as mechanics, optics, sonics, thermodynamics, electricity, electronics, magnetism and nuclear physics
- studying specific aspects of the functions and physical mechanisms of systems in living organisms
- examining physical forces involved in replication and heredity
- developing industrial, medical, military and other applications of physics
- expressing observations, formulating conclusions and illustrating hypotheses using mathematical techniques and models
- preparing scientific papers and reports

OCCUPATIONS

2105-11 Physicist
Astronomer (s)
Chief Physicist (s)
Cosmologist (s)
Crystallographer (s)

2107 LIFE SCIENTISTS

LIFE SCIENTISTS examine the morphology, structure, chemistry and physical characteristics of humans, animals, plants and other living organisms; develop practical applications of biological and related theory; study the environment of, and interrelationships between, animals and plants; develop and manage forest lands and resources; and advise farmers on all aspects of farming.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- studying the physical and chemical form, structure, composition and function of organs and tissues
- researching the effect of internal and external environmental factors on the life processes and functions of humans, plants and animals, such as respiration, circulation, movement etc., under normal and abnormal conditions
- identifying and studying the chemical substances

PROFESSIONALS

- and events involved in physiological processes
- growing plants under controlled conditions to study the impact of environmental factors on plant growth
- observing the structure of communities of organisms in the laboratory and natural environment to predict the effect of human influences
- studying forest plants and environmental effects upon them, and planning maximum long-term economic, environmental and recreational benefits from forest resources
- advising farmers on growth and production rates of field crops, produce and livestock
- preparing scientific papers and reports

OCCUPATIONS

- 2107-11 Anatomist**
Animal Morphologist (a)
Embryologist (s)
Histologist (s)
Neuroanatomist (s)
- 2107-13 Physiologist**
Endocrinologist (s)
- 2107-15 Biochemist**
Enzyme Chemist (s)
Molecular Biologist (s)
Protein Chemist (s)
- 2107-17 Biophysicist**
- 2107-19 Botanist**
Agronomist (s)
Agrostologist (s)
Horticultural Scientist (s)
Plant Anatomist (s)
Plant Morphologist (s)
Plant Pathologist (s)
Plant Physiologist (s)
Plant Scientist (s)
Plant Taxonomist (s)
- 2107-21 Ecologist**
- 2107-23 Zoologist**
Animal Nutritionist (s)
Animal Taxonomist (s)
Entomologist (s)
Insect Pathologist (s)
Soil Zoologist (s)
Veterinary Parasitologist (s)
Veterinary Pathologist (s)
- 2107-25 Forester**
Forest Manager (a)
Forest Scientist (s)
Forestry Adviser (s)
Harvesting Manager (Forestry) (s)
Sylviculturist (s)
- 2107-27 Agricultural Extension Officer**
Agricultural Adviser (a)
Agricultural Consultant (s)
Farm Consultant (s)
- 2107-99 Life Scientists nec**
Bacteriologist (s)
Cell Biologist (s)
Geneticist (s)
Microbiologist (s)
Parasitologist (s)
Pharmacologist (except Clinical) (s)
Soil Biologist (s)
Toxicologist (s)
Virologist (s)

2109 MEDICAL TESTING PROFESSIONALS

MEDICAL TESTING PROFESSIONALS conduct medical laboratory tests and apply knowledge and methodology from various scientific disciplines such as physics, chemistry and engineering to provide information and develop equipment for diagnosis, treatment and prevention of human disease.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree.

TASKS include:

- preparing tissue sections for microscopic examination to determine the nature, cause and progress of disease
- performing autopsies to determine the nature and extent of disease or injury or the cause of death
- analysing body specimens to determine presence and quality of microbic infections and various chemical substances
- studying characteristics of blood cells related to various physiological and pathological conditions, and performing blood tests
- assessing the effects of microbic behaviour on tissue and investigating responses of the body to foreign cells or other agents
- advising on the use of ionising radiation, and formulating radiation protecting procedures for the hospital environment
- developing electronic and mechanical equipment to assist in the diagnosis, treatment and rehabilitation of patients
- preparing case reports

OCCUPATIONS

- 2109-11 Medical Laboratory Scientist**
 Clinical Laboratory Scientist (a)
 Clinical Chemist (s)
 Cytologist (s)
 Epidemiologist (s)
- 2109-13 Clinical Physical Scientist**
 Biomedical Engineer (s)
 Medical Physicist (s)

2199 OTHER NATURAL SCIENTISTS

This unit group covers occupations not elsewhere classified in minor group 21, Natural Scientists.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree.

OCCUPATIONS

- 2199-11 Environmental Scientist**
 Air Pollution Analyst (s)
 Land Degradation Analyst (s)
 Water Quality Analyst (s)
- 2199-13 Soil Scientist**
 Pedologist (a)
 Soil Conservationist (s)
- 2199-15 Meteorologist**
 Agrometeorologist (s)
 Hydrometeorologist (s)
 Research Meteorologist (s)

MINOR GROUP 22 BUILDING PROFESSIONALS AND ENGINEERS

BUILDING PROFESSIONALS AND ENGINEERS apply specialised scientific and technical expertise to the operation and development of production systems and the design, construction, installation and maintenance of civil and industrial structures, plant and mechanical or electrical equipment. They survey and investigate geological and geographical phenomena in order to prepare graphic and pictorial representations of them and advise on the extraction of minerals, oil and gas and the undertaking of civil engineering projects.

Occupations in this minor group have a level of skill commensurate with a 3-5 year degree or diploma.

Tasks performed by Building Professionals and Engineers typically include preparing and analysing plans, maps or designs of buildings, landscapes, mines, oil and gas installations, production systems, mechanical and electrical equipment and other engineering projects; planning and monitoring the progress and operation of engineering projects and industrial production; estimating the costs and advising on the feasibility of engineering and survey operations; liaising with clients, other professionals and managers to resolve design, planning and operational problems; and conducting applied research to solve practical problems.

Aircraft Maintenance Engineers are excluded from this minor group because they do not require extensive theoretical knowledge and the entry requirement for these occupations is a trade certificate. They are located in Unit Group 4211, Aircraft Maintenance Engineers. Professional Builders are located in Unit Group 1601, Managing Supervisors (Other Business), as they cannot reliably be distinguished in statistical collections from Building Contractors.

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

- 2201 ARCHITECTS AND LANDSCAPE ARCHITECTS**
- 2203 QUANTITY SURVEYORS**
- 2205 CARTOGRAPHERS AND SURVEYORS**
- 2207 CHEMICAL ENGINEERS**
- 2209 CIVIL ENGINEERS**
- 2211 ELECTRICAL AND ELECTRONICS ENGINEERS**
- 2213 MECHANICAL ENGINEERS**
- 2215 MINING ENGINEERS**
- 2217 METALLURGISTS AND MATERIALS SCIENTISTS**
- 2219 OTHER ENGINEERS**

2201 ARCHITECTS AND LANDSCAPE ARCHITECTS

ARCHITECTS AND LANDSCAPE ARCHITECTS design commercial, industrial and residential buildings and landscapes and plan construction.

SKILL LEVEL

The entry requirement for this unit group is a 5-6 year degree or post-graduate diploma. Architects are required to register with state authorities to practise privately.

TASKS include:

- analysing sites and making appropriate recommendations for development or construction
- preparing detailed scale drawings and detailed specifications for design and construction
- liaising with clients and other professionals on matters of design, cost, timing and feasibility of projects

- monitoring construction to ensure compliance with specifications

OCCUPATIONS

2201-11 Architect
Chief Architect (s)

2201-13 Landscape Architect

RELATED OCCUPATIONS

2219-15 Naval Architect
2907-11 Urban and Regional Planner
4805-13 Landscape Gardener

2203 QUANTITY SURVEYORS

QUANTITY SURVEYORS prepare and monitor cost estimates and bills of quantities for construction projects.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma.

TASKS include:

- analysing architectural and engineering drawings and specifications to estimate the cost of materials, labour and construction
- liaising with architects, builders and engineers
- monitoring changes of design and assessing effects on cost
- advising clients on tenders
- advising on costs of alternative construction materials and methods and on alternative contractual arrangements

OCCUPATIONS

2203-11 Quantity Surveyor

2205 CARTOGRAPHERS AND SURVEYORS

CARTOGRAPHERS AND SURVEYORS use digital and graphic source material and surveying techniques to determine the exact position of natural and constructed geographical features and prepare or revise graphic and pictorial representations. They also supervise and co-ordinate the work of other cartographers, technicians and field workers.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or diploma.

TASKS include:

- determining the position of points of the earth's surface including the ocean bed
- designing and compiling map manuscripts
- liaising with other professionals
- advising on technical, environmental and other requirements connected with surveying, mapping, land sub-division and development
- advising on technical, aesthetic and economic aspects of map production
- researching and developing surveying and cadastral systems and information/data banks

OCCUPATIONS

2205-11 Cartographer

2205-13 Surveyor
 Air Photo Plotter (Air Force) (s)
 Cadastral Surveyor (s)
 Engineering Surveyor (s)
 Geodetic Surveyor (s)
 Hydrographic Surveyor (s)
 Photogrammetric Surveyor (s)

2207 CHEMICAL ENGINEERS

CHEMICAL ENGINEERS conduct applied research to develop and improve commercial-scale chemical products or processes, and design and prepare specifications for commercial-scale chemical plants and control systems. They oversee industrial

processing and fabrication operations involving products undergoing physical and chemical changes. They may supervise engineering associates and technical officers.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- investigating practical engineering problems, conducting mathematical modelling and computer simulation of complex processes
- evaluating merits of batch and continuous flow operations and optimising process conditions
- designing pilot plants and systems used for effecting chemical changes, heat transfer, removal of components, fuel evaluation, control, storage and handling of solids, liquids and gases
- advising sales personnel and market researchers on processes and products
- overseeing operation and maintenance of equipment to achieve maximum efficiency under safe operating conditions
- ensuring that materials and equipment conform to specifications, diagnosing malfunctions and instituting remedial action
- preparing reports, feasibility studies and detailed costings

OCCUPATIONS

2207-11 Chemical Engineer
 Combustion Engineer (s)
 Petrochemical Process Engineer (s)
 Principal Chemical Engineer (s)
 Smelting Engineer (s)
 Water Treatment Engineer (s)

2209 CIVIL ENGINEERS

CIVIL ENGINEERS plan, design and direct construction and manage operations and maintenance of large-scale transport, water supply and sewerage structures. They conduct research into materials, processes and systems, scientific theories and principles applicable to practical engineering problems. They may supervise engineering associates and technical officers.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- conducting experiments, investigating and correlating data on concrete technology, structures, soil mechanics, hydrology, hydraulics, water and waste treatment processes and other such areas
- designing hydraulic systems, roads, aerodromes, water supply systems, sewerage systems, bridges, dams, buildings and harbours
- determining and specifying construction methods, materials and quality standards
- analysing loading, labour, productivity and performance of materials and systems
- ensuring that equipment, operation and maintenance accord with design specifications
- diagnosing malfunctions and instituting remedial action

- establishing work control systems to promote and monitor operational efficiency, safety, cost-effectiveness and environmental protection
- establishing a detailed programme to co-ordinate site activities, administer contracts, and ensure satisfactory completion

OCCUPATIONS

- 2209-11 Civil Engineer**
 Chief Civil Engineer (s)
 Construction Engineer (s)
 Municipal Engineer (s)
 Structural Engineer (s)
 Transport Engineer (Army) (s)
 Water Supply Distribution Engineer (s)

2211 ELECTRICAL AND ELECTRONICS ENGINEERS

ELECTRICAL AND ELECTRONICS ENGINEERS design and develop electrical and electronic systems and equipment used in communications, process control, navigation, data processing, entertainment, power generation and distribution, and oversee their manufacture, testing, installation, operation and maintenance. They research electrical and electronic phenomena in order to solve practical engineering problems. They may supervise engineering associates and technical officers.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- conducting experiments; investigating and correlating data on power generation and transmission systems, transformers, switchgear and electric motors and their controls, telemetry and remote control systems, process and systems control, data processing equipment, radar, communications equipment, and microwave systems
- preparing and evaluating designs and specifications and overseeing manufacture, installation and operation of equipment and systems, ensuring compliance with specifications and contractual arrangements
- determining arrangement of circuit elements, transistors and integrated circuits and location, layout and transmission medium
- developing test apparatus and evaluation procedures
- developing or modifying electrical components, equipment and appliances, overseeing construction of prototype circuits
- establishing safety and performance standards and procedures for modification, maintenance and repair

OCCUPATIONS

- 2211-11 Electrical Engineer**
 Chief Electrical Engineer (s)
 Electrical Maintenance Engineer (s)
 Electrical Power Engineer (s)
- 2211-13 Electronics Engineer**
 Chief Electronics Engineer (s)
 Communications Engineer (s)
 Computer Engineer (s)
 Process Control Engineer (s)
 Radio Engineer (s)
 Telecommunications Engineer (s)

2213 MECHANICAL ENGINEERS

MECHANICAL ENGINEERS design and develop machines, mechanisms, mechanical plant and systems and oversee their assembly, erection and operation. They conduct research into materials, mechanisms, machines and processes to solve practical engineering problems. They may supervise engineering associates and technicians.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- conducting experiments, investigating and correlating data on energy use, materials handling, thermodynamic processes, fluid mechanics, vehicles and environmental controls
- designing mechanical equipment, machinery, components, products for manufacture, plant and systems for construction
- developing specifications for manufacture, determining materials, equipment, piping, material flows, capacities and layout of plant or systems
- overseeing construction and establishing work control systems to promote and monitor operational efficiency, safety, cost-effectiveness, quality and environmental protection
- evaluating performance of machinery and equipment to determine suitability for manufacturing application

OCCUPATIONS

- 2213-11 Mechanical Engineer**
 Air-Conditioning Engineer (s)
 Chief Mechanical Engineer (s)

2215 MINING ENGINEERS

MINING ENGINEERS plan and direct the engineering aspects of extraction of minerals, oil and gas from the earth (including the sea bed). They may supervise engineering associates and technical officers.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- conducting preliminary surveys of mineral deposits to ascertain economic feasibility of ore extraction
- consulting geologists, geophysicists and other engineers concerning location, design and development of extractive processes
- planning location for drilling, layout of tunnels and chambers and construction of shafts
- selecting or designing machinery, facilities and systems for mining
- devising methods of controlling flow of oil or gas from wells
- preparing and evaluating cost estimates, specifications and tenders
- establishing safety procedures and first aid facilities

PROFESSIONALS

at the mine

OCCUPATIONS

2215-11 Mining Engineer (except Petroleum)
Chief Mining Engineer (s)

2215-13 Petroleum Engineer
Mud Engineer (s)
Oil and Gas Drilling Engineer (s)
Petrophysical Engineer (s)

2217 METALLURGISTS AND MATERIALS SCIENTISTS

METALLURGISTS AND MATERIALS SCIENTISTS investigate the properties of metals and alloys; develop new ceramic, polymeric and other materials; and develop, control and advise on extraction, refinement, alloying and treatment procedures. They may supervise engineering associates and technicians.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree in metallurgical engineering or materials science or engineering.

TASKS include:

- studying structure and properties of metals and alloys, ceramics, polymers, plastics, composite materials and rubbers
- developing and testing new techniques and products
- evaluating metal properties during rolling, extruding, casting, welding and alloying processes
- studying engineering properties of materials in relation to tension, compression, impact, bending, fatigue and extremes of temperature using testing devices
- studying and applying chemical and process metallurgy techniques for extraction of metals and alloys in commercial quantities by high temperature smelting or leaching precipitation
- designing and developing techniques for moulding, casting, shaping and joining diverse materials and overseeing experimental production
- specifying temperatures, mixtures and other factors in the extraction or production process and devising procedures to protect materials against deterioration or corrosion
- preparing cost estimates and budgets to evaluate economic feasibility of the production process

OCCUPATIONS

2217-11 Extractive Metallurgist
Primary Metallurgist (a)
Hydrometallurgical Engineer (s)
Pyrometallurgical Engineer (s)

2217-13 Physical Metallurgist
Industrial Metallurgist (a)
Secondary Metallurgist (a)
Metallographer (s)

GROUP DEFINITIONS

Quality Control Metallurgist (s)
Radiological Metallurgist (s)

2217-15 Materials Engineer
Metallurgical Engineer (a)
Ceramics Engineer (s)
Polymer Engineer (s)

2217-17 Materials Scientist
Ceramics Scientist (s)
Polymer Scientist (s)

2219 OTHER ENGINEERS

OTHER ENGINEERS design, develop, oversee and participate in manufacturing, maintaining, modifying and repairing marine vessels and floating structures, aircraft, agricultural machinery and equipment. They conduct research to solve practical engineering problems and to evaluate the safety and cost-effectiveness of engineering methods and equipment. They may supervise engineering associates and technicians.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree.

TASKS include:

- consulting users of aircraft, ships, agricultural and other machinery concerning design requirements
- preparing preliminary designs and directing preparation of detailed designs
- determining layout and overseeing construction of irrigation, drainage, flood and water control systems, farm buildings, crop processing plant and processing systems for animal products
- preparing and evaluating specifications, tenders, estimates and contracts
- overseeing construction, assembly and installation of equipment
- authorising modifications, repairs and maintenance
- assessing production sequences and methods; recommending changes in procedures, utilisation of equipment and labour, and safety precautions

OCCUPATIONS

2219-11 Aeronautical Engineer
Air Safety Engineer (s)

2219-13 Agricultural Engineer

2219-15 Naval Architect

2219-17 Industrial Engineer
Methods Engineer (s)
Safety Engineer (s)

2219-99 Engineers nec
Military Armament Engineer (s)
Military Instrument Engineer (s)
Product Design Engineer (s)

MINOR GROUP 23 HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS

HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS diagnose physical and mental illnesses and conditions and recommend, administer, dispense and develop medications and treatment to promote or restore good health.

Occupations in this minor group have a level of skill commensurate with a 3-5 year degree. Specialist Medical Practitioners require, in addition, a 1 year internship and 4-6 years specialist training and study. Radiographers require a 2-3 year diploma.

Tasks performed by Health Diagnosis and Treatment Practitioners typically include examining patients to establish the nature of their complaint and performing or ordering tests, X-rays and other diagnostic procedures; selecting and administering appropriate treatment and therapy and advising patients of further treatment and preventive or therapeutic measures; prescribing, administering, preparing and dispensing medication and prosthetic or corrective devices, administering anaesthetic and performing surgery; and conducting research to improve diagnosis and treatment.

This minor group includes Veterinarians because they perform similar functions to medical practitioners but deal with animals. Radiographers are included because they assist Medical Practitioners in diagnosis and in recommending treatment.

Occupations which are concerned with treatment only are excluded from this minor group as they do not require a minimum 3 year degree or diploma. These can be found in Unit Groups 3401, 6603 and 6605. Clinical and Counselling Psychologists are excluded from this minor group because they treat mental conditions by emphasising non-medical aspects and using techniques characteristic of the discipline of psychology. They are located in Unit Group 2903.

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

- 2301 GENERAL MEDICAL PRACTITIONERS**
- 2303 SPECIALIST MEDICAL PRACTITIONERS**
- 2305 DENTAL PRACTITIONERS**
- 2307 PHARMACISTS**
- 2309 OCCUPATIONAL THERAPISTS**
- 2311 OPTOMETRISTS**
- 2313 PHYSIOTHERAPISTS**
- 2315 SPEECH PATHOLOGISTS**
- 2317 CHIROPRACTORS AND OSTEOPATHS**
- 2319 PODIATRISTS**
- 2321 RADIOGRAPHERS**
- 2323 VETERINARIANS**
- 2399 OTHER HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS**

2301 GENERAL MEDICAL PRACTITIONERS

GENERAL MEDICAL PRACTITIONERS diagnose and treat physical and mental illnesses, disorders and injuries, recommend preventive action and refer patients to Specialist Medical Practitioners.

SKILL LEVEL

The entry requirement for this unit group is a 5-6 year degree plus 1 year internship. Registration is required by State or Territory authorities.

TASKS include:

- examining patients and ordering laboratory tests, X-rays and other diagnostic procedures
- prescribing and administering drugs and other

remedial treatments

- inoculating patients against communicable diseases
- advising on diet, exercise and other habits which aid prevention or treatment of disease and disorders
- delivering babies
- providing pre-natal and post-natal care
- referring patients to, and exchanging medical information with, specialists
- reporting births, deaths and notifiable diseases to government authorities

OCCUPATIONS

2301-11 General Medical Practitioner

2303 SPECIALIST MEDICAL PRACTITIONERS

SPECIALIST MEDICAL PRACTITIONERS diagnose and treat diseases and disorders (including congenital malfunctions and developmental and mental disorders) occurring in a particular area or system of the body (including the brain), and/or in a particular age group or during one specific phase (ie. rehabilitation), using specialist testing, diagnostic, surgical or medical techniques.

SKILL LEVEL

The entry requirement for this unit group is a 5-6 year degree in medicine plus a 1 year internship and 4-6 years specialist training and study.

TASKS include:

- receiving referrals from other medical practitioners
- diagnosing disorders by examining patients and using the results of laboratory and other tests
- taking blood and tissue samples, examining tissue, performing microscopic examination of bacterial cultures, using X-ray and other such imaging methods for diagnostic purposes
- prescribing and administering medication
- recommending admission to treatment and rehabilitation programmes
- operating on patients using specialised surgical procedures
- treating tumours by exposure to radiation
- administering anaesthetic and monitoring patients throughout surgical procedures and post-operative periods
- maintaining close liaison with other personnel caring for the patient
- instructing patients in remedial exercises and advising on preventive health practices

OCCUPATIONS

- 2303-11 Anaesthetist
- 2303-13 Cardiologist
- 2303-15 Obstetrician and Gynaecologist
- 2303-17 Ophthalmologist
- 2303-19 Orthopaedic Specialist
Orthopaedic Surgeon (a)
- 2303-21 Psychiatrist
- 2303-23 Radiologist
Diagnostic Radiologist (s)
Nuclear Medicine Specialist (s)
Radiation Oncologist (s)
Therapeutic Radiologist (s)
- 2303-25 Paediatrician
- 2303-27 Thoracic Specialist
Cardiovascular Specialist (a)
- 2303-29 Dermatologist
- 2303-31 Otorhinolaryngologist
Ear, Nose and Throat Specialist (a)
- 2303-33 Urologist
- 2303-35 Surgeon
Cardiothoracic Surgeon (s)
Neurosurgeon (s)
Ophthalmic Surgeon (s)

- Otorhinolaryngological Surgeon (s)
- Paediatric Surgeon (s)
- Plastic and Reconstructive Surgeon (s)
- Surgical Oncologist (s)

2303-37 Pathologist

- Blood Transfusionist (s)
- Clinical Biochemist (s)
- Clinical Microbiologist (s)
- Haematologist (s)
- Histopathologist (s)
- Immunologist (s)

2303-39 Specialist in Rehabilitation Medicine

- Orthopaedic Rehabilitation Specialist (s)
- Prosthetics and Orthotics Rehabilitation Specialist (s)
- Spinal Injuries Rehabilitation Specialist (s)
- Vocational Rehabilitation Specialist (s)

2303-41 Specialist Physician

- Infectious Diseases Specialist (s)

2303-99 Specialist Medical Practitioners nec

- Clinical Allergist (s)
- Clinical Endocrinologist (s)
- Clinical Pharmacologist (s)
- Gastroenterologist (s)
- Geriatrician (s)
- Industrial Medicine Specialist (s)
- Medical Oncologist (s)
- Nephrologist (s)
- Neurologist (s)
- Occupational Medicine Specialist (s)
- Renal Specialist (s)
- Rheumatologist (s)

2305 DENTAL PRACTITIONERS

DENTAL PRACTITIONERS diagnose diseases, injuries, irregularities and malformations of teeth, gums, mouth tissue, jaw and other dento-facial structures, prescribe and administer restorative and preventive procedures, including surgery and other specialist techniques.

SKILL LEVEL

The entry requirement for this unit group is a 5 year degree. 2 years as a Dentist is a pre-requisite to specialisation and a minimum of 4 years on-the-job training in a particular specialisation is usual. Registration is required by State or Territory authorities.

TASKS include:

- examining teeth, gums, tissues and dento-facial structures, using dental and X-ray equipment in order to diagnose dental problems
- administering local and general anaesthetics
- filling cavities
- extracting decayed or deformed teeth
- constructing inlays and artificial crowns to replace portions of teeth
- designing, constructing and fitting complete and partial dentures, orthodontic and other appliances and performing bridge work
- performing specialist examinations and tests and undertaking or arranging appropriate treatment in a specialist area

GROUP DEFINITIONS

PROFESSIONALS

OCCUPATIONS

2305-11 Dentist

2305-13 Dental Specialist
Endodontist (s)
Oral Pathologist (s)
Oral Surgeon (s)
Orthodontist (s)
Paedodontist (s)
Periodontist (s)
Prosthodontist (s)

2307 PHARMACISTS

PHARMACISTS compound and dispense pharmaceuticals and other drugs and medicines in hospitals and pharmacies, and conduct research on production, storage, quality control and distribution of drugs and related supplies.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree plus a 1 year traineeship. Registration is required by State or Territory authorities.

TASKS include:

- preparing or directing preparation and labelling of liquid medicines, ointments, powders, tablets and other medications to fill prescriptions
- receiving prescriptions and checking for correct dosage and drug compatibility before dispensing
- advising on drug incompatibility and contradictions
- maintaining prescription files and recording issue of narcotics, poisons and habit forming drugs
- conferring with chemists, engineers and other professionals about manufacturing techniques and ingredients
- testing and analysing drugs to determine identity, purity and strength
- developing legally recognised standards and advising on government controls and regulations
- selling non-prescription drugs, sick-room supplies, toiletries, cosmetics and other commercial products

OCCUPATIONS

2307-11 Hospital Pharmacist

2307-13 Industrial Pharmacist

2307-15 Retail Pharmacist
Community Pharmacist (a)

2309 OCCUPATIONAL THERAPISTS

OCCUPATIONAL THERAPISTS assess the degree to which abilities are impaired by the aging process, developmental, neurological or physical injury or illness, psychological or social disability, and provide therapeutic programmes.

SKILL LEVEL

The entry requirement for this unit group is a 3 1/2 year degree. Registration is required by State or Territory authorities.

TASKS include:

- evaluating patients' emotional, psychological, developmental and physical capabilities
- conducting treatment programmes on an individual or group basis, directing recreational, remedial, social and educational activities
- training handicapped persons in self-care and normal living activities
- training patients with perceptual motor problems
- training children with learning or developmental disabilities
- monitoring and recording patients' activities, responses and progress

OCCUPATIONS

2309-11 Occupational Therapist

2311 OPTOMETRISTS

OPTOMETRISTS diagnose and treat eye disorders or defects not requiring medication or surgery.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree. Registration is required by State or Territory authorities.

TASKS include:

- examining eyes, administering visual tests and assessing the nature and extent of vision problems and abnormalities
- prescribing and dispensing spectacle lenses, contact lenses and low vision aids
- checking lenses and aids made by optical mechanics for suitability and comfort
- advising patients on eye exercises, lighting and visual habits
- referring patients whose eyes show evidence of disease to other practitioners

OCCUPATIONS

2311-11 Optometrist

RELATED OCCUPATIONS

2303-17 Ophthalmologist
2399-15 Orthoptist

2313 PHYSIOTHERAPISTS

PHYSIOTHERAPISTS prevent and treat disorders of movement caused by injury or disease.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree. Registration is required by State or Territory authorities.

TASKS include:

- testing muscles, nerves, joints and functional ability, and identifying and assessing patients' physical problems
- selecting appropriate form of therapy and treating

PROFESSIONALS

patients to reduce pain, improve circulation, strengthen muscles, restore joint mobility, improve cardiothoracic, cardiovascular and respiratory functions, balance and co-ordination

- training or retraining patients to perform normal living activities
- instructing patients and their families in procedures to be continued at home
- monitoring and recording patients' responses and progress

OCCUPATIONS

2313-11 Physiotherapist

RELATED OCCUPATIONS

2309-11 Occupational Therapist
2317-11 Chiropractor

2315 SPEECH PATHOLOGISTS

SPEECH PATHOLOGISTS diagnose and treat speech disorders.

SKILL LEVEL

The entry requirement for this unit group is a 4 year degree. Registration is required by State or Territory authorities.

TASKS include:

- administering tests and observing patients to determine nature and extent of disorders
- planning and conducting programmes of remedial exercises to correct stuttering, abnormal articulation and other disorders
- administering individual or group therapy for rehabilitation of patients with communication problems (caused by defective hearing, cerebral palsy, surgery or injury)
- treating and advising on children slow in learning to speak
- counselling and guiding language-handicapped individuals and families, their teachers and employers

OCCUPATIONS

2315-11 Speech Pathologist
Speech Therapist (a)

2317 CHIROPRACTORS AND OSTEOPATHS

CHIROPRACTORS AND OSTEOPATHS diagnose, treat and advise on prevention of physiological and mechanical disorders of the locomotor system.

SKILL LEVEL

The entry requirement for this unit group is a 4-5 year degree. Registration is required by State or Territory authorities.

TASKS include:

- examining patient, ordering or performing X-rays and pathological tests
- diagnosing disorder from discussion, observation

GROUP DEFINITIONS

and test results

- manipulating peripheral joints and soft tissues of the spinal column or other parts of the body framework to restore mechanical function
- advising on diet, nutrition and lifestyle
- prescribing exercises for rehabilitation and/or prevention

OCCUPATIONS

2317-11 Chiropractor

2317-13 Osteopath

RELATED OCCUPATIONS

2313-11 Physiotherapist
6699-17 Masseur/Masseuse

2319 PODIATRISTS

PODIATRISTS diagnose and treat ailments and abnormal conditions of the foot and perform minor surgery.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or diploma. Registration is required by State or Territory authorities.

TASKS include:

- examining feet to determine nature and extent of conditions, deformities or injuries
- treating paralysis, ulceration and malfunction of the feet caused by diseases such as diabetes, rheumatoid arthritis and peripheral vascular disorders
- performing minor surgery to remove or ameliorate abnormal conditions
- prescribing and fitting replaceable pads, shields, supports and other corrective and protective foot devices
- prescribing and arranging fabrication of corrective footwear
- referring patients to medical practitioners where necessary

OCCUPATIONS

2319-11 Podiatrist
Chiropodist (a)

2321 RADIOGRAPHERS

RADIOGRAPHERS operate radiation producing and monitoring equipment for diagnostic, monitoring or treatment purposes, under the direction of a radiologist or other medical practitioner.

SKILL LEVEL

The entry requirement for this unit group is a 2-3 year diploma or associate diploma. 1-2 years on-the-job training is usual. Registration is required by State or Territory authorities.

TASKS include:

- following instructions from medical practitioner

GROUP DEFINITIONS

PROFESSIONALS

- prescribing tests or treatment
- calculating length and intensity of exposure to radiation and size and strength of dosage of isotopes
- positioning patients, screens and equipment preparatory to procedure
- operating X-ray machines, radiation scanners and fluoroscopes
- compiling electronic or photographic records of tests for diagnostic purposes
- preparing radioactive materials for use in radiation scanning or radiation treatments

OCCUPATIONS

- 2321-11 Medical Diagnostic Radiographer
- 2321-13 Medical Therapeutic Radiographer
- 2321-15 Nuclear Medicine Technologist

2323 VETERINARIANS

VETERINARIANS diagnose and treat animal diseases, ailments and injuries, and advise on and implement preventive measures.

SKILL LEVEL

The entry requirement for this unit group is a 5 year degree. Registration is required by State or Territory authorities.

TASKS include:

- examining animals to determine the nature of the condition
- performing laboratory tests and X-ray examinations
- performing surgery on animals and performing obstetric services
- administering or prescribing drugs, sedatives, analgesics, general or local anaesthetics

- performing autopsies on animals
- inoculating animals against infectious diseases
- advising clients on hygiene, feeding, care and breeding of animals

OCCUPATIONS

- 2323-11 Veterinarian
Veterinary Surgeon (a)

RELATED OCCUPATIONS

- 8999-23 Veterinary Nurse

2399 OTHER HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS

This unit group covers occupations not elsewhere classified in Minor Group 23, Health Diagnosis and Treatment Practitioners.

SKILL LEVEL

The usual entry requirement for occupations in this unit group is a 3 year degree or diploma.

OCCUPATIONS

- 2399-11 Audiologist
- 2399-13 Dietitian
Nutritionist (a)
- 2399-15 Orthoptist
- 2399-99 Health Diagnosis and Treatment Practitioners nec
Acupuncturist (s)
Chinese Medicine Specialist (s)
Herbalist (s)
Homeopath (s)
Naturopath (s)
Orthotist (s)
Prosthetist (s)

MINOR GROUP 24 SCHOOL TEACHERS

SCHOOL TEACHERS educate children in primary, pre-primary, secondary or special schools. They promote physical, mental, social and emotional development and prepare young people for adult life.

Occupations in this minor group have a level of skill commensurate with a 3-4 year degree or diploma.

Tasks performed by School Teachers typically include assessing the abilities and level of achievement of pupils through direct observation and administering tests; selecting, preparing and presenting courses, teaching materials and lessons suited to the abilities of the pupils; correcting and assessing pupils' work; attending to the social, emotional and physical well-being of pupils and maintaining acceptable standards of behaviour; and discussing individual progress and problems with other professionals, parents and pupils.

School Principals are excluded from this minor group because their tasks are primarily managerial and are broader in scope than supervising School Teachers. They can be found in Unit Group 1317, Education Managers.

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

- 2401 PRE-PRIMARY SCHOOL TEACHERS**
- 2403 PRIMARY SCHOOL TEACHERS**
- 2405 SECONDARY SCHOOL TEACHERS**
- 2407 SPECIAL EDUCATION TEACHERS**

2401 PRE-PRIMARY SCHOOL TEACHERS

PRE-PRIMARY SCHOOL TEACHERS introduce children to the rudiments of music, art, literature and numeracy in a pre-primary centre, and promote their physical, mental and social development.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in teaching or education with special emphasis on early childhood education. Some States/Territories require registration with the appropriate authority.

TASKS include:

- planning activities using a variety of materials and equipment designed to facilitate the children's development of gross and fine motor skills, and co-operative social skills
- promoting language development through story telling, role play, songs, rhymes and informal discussions
- observing children to evaluate progress and to detect signs of ill health, emotional disturbance or other disabilities
- providing for nutritional health, welfare and safety needs of children
- discussing child's progress and any problems with parents
- participating in parent/staff committees

OCCUPATIONS

- 2401-11 Pre-Primary School Teacher**
 Early Childhood Teacher (a)
 Kindergarten Teacher (a)
 Pre-School Teacher (a)
 Kindergarten Director (s)

Pre-School Director (s)

RELATED OCCUPATIONS

- 2403 Primary School Teachers

2403 PRIMARY SCHOOL TEACHERS

PRIMARY SCHOOL TEACHERS teach a range of subjects within a prescribed curriculum, to pupils at primary and junior primary level.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in education or a 3 year degree plus a post-graduate diploma in education. Some States/Territories require registration with the appropriate authority.

TASKS include:

- developing and preparing course curricula and teaching outlines for courses of study
- teaching subjects such as reading, writing, mathematics, science
- preparing, administering and marking tests, projects and assignments to evaluate pupils' progress and taking remedial steps where necessary
- discussing social, behavioural and learning problems with parents and/or school counsellors
- supervising pupils in classrooms and other areas of the school

OCCUPATIONS

- 2403-01 Senior Teacher, Infant-Primary School**

2403-11 Primary School Teacher
 Infant School Teacher (s)
 Junior Primary School Teacher (s)
 Primary Teacher-Librarian (s)

RELATED OCCUPATIONS

2401 Pre-Primary School Teachers

2405 SECONDARY SCHOOL TEACHERS

SECONDARY SCHOOL TEACHERS teach one or more subjects within a prescribed curriculum, to pupils at secondary level.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in education or a 3 year degree plus a post-graduate diploma in education. Some States/Territories require registration with the appropriate authority.

TASKS include:

- developing and preparing course curricula and teaching outlines for courses of study
- teaching one or more subjects within the school curriculum through presentation of lesson material, discussions, workshop and laboratory sessions, and the use of audio-visual aids
- preparing, administering and marking tests, projects and assignments to evaluate pupils' progress, and recording the results
- maintaining discipline in classrooms and other school areas
- discussing individual progress and problems with pupils, parents and/or school counsellors and senior teachers
- participating in staff meetings, educational conferences, workshops and parent/teacher meetings

OCCUPATIONS

2405-01 Senior Teacher, Secondary School

2405-11 Secondary School Teacher
 Secondary School Teacher-Librarian (s)

2407 SPECIAL EDUCATION TEACHERS

SPECIAL EDUCATION TEACHERS teach primary or secondary pupils with particular learning difficulties, intellectual, physical, social or emotional handicaps, exceptional intellectual gifts, or specific problems of language, and/or culture in special schools or classes.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in education or a 3 year degree plus a post-graduate diploma in education. Some States/Authorities require registration with the appropriate authority.

TASKS include:

- evaluating pupils' abilities and limitations and planning a special programme of study accordingly
- administering various forms of assessment and interpreting the results
- teaching basic academic subjects, and practical and self-help skills
- devising instructional materials, methods and aids to assist in the training or rehabilitation process
- advising, instructing and counselling parents and/or teachers on availability and use of special techniques
- stimulating and developing interests, abilities, manual skills and co-ordination

OCCUPATIONS

2407-11 Resource Teacher
 Remedial Teacher (a)
 Educational Support Teacher (s)
 Integration Teacher (s)

2407-13 Teacher of Disabled or Gifted Students
 Teacher of the Hearing Impaired (s)
 Teacher of the Intellectually Disabled (s)
 Teacher of the Visually Impaired (s)

2407-99 Special Education Teachers nec
 Aboriginal Education Teacher (s)
 Teacher of English as a Second Language (s)
 Teacher of Multi-cultural Studies (s)

MINOR GROUP 25 OTHER TEACHERS AND INSTRUCTORS

OTHER TEACHERS AND INSTRUCTORS educate students in tertiary and further educational institutions, or privately. They are specialists in the field of knowledge which they teach.

Occupations in this minor group have a level of skill commensurate with a 3-4 year degree or diploma.

Tasks performed by Other Teachers and Instructors typically include preparing and presenting theoretical and practical subject matter in lectures, tutorials, lessons and workshop sessions; monitoring and assessing the progress of individual students; advising students on courses, progress and academic matters; and participating in meetings and conferences.

Education Managers are excluded from this minor group as their tasks are primarily managerial and are broader in scope than supervising teachers. They can be found in Minor Group 13, Specialist Managers.

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

- 2501 UNIVERSITY AND CAE TEACHERS**
- 2503 TAFE TEACHERS**
- 2505 EXTRA-SYSTEMIC TEACHERS AND INSTRUCTORS**

2501 UNIVERSITY AND CAE TEACHERS

UNIVERSITY AND CAE (COLLEGE OF ADVANCED EDUCATION) TEACHERS prepare and deliver lectures and teach tertiary students in one or more subjects within a prescribed course of study, and conduct tutorials and research in a particular field of study.

SKILL LEVEL

The entry requirement for this unit group is a 4-6 year degree plus post-graduate study.

TASKS include:

- preparing and delivering lectures, conducting tutorials, seminars, and laboratory sessions
- preparing and marking essays, assignments and examinations
- advising students on academic and related matters
- participating in course development and in meetings on departmental, budgetary, curriculum and policy matters
- attending conferences and seminars, and conducting research into a particular field of knowledge

OCCUPATIONS

- 2501-11 University or CAE Lecturer**
Professor (s)
Reader (s)
- 2501-13 University or CAE Tutor**
University or CAE Demonstrator (s)
University or CAE Teaching Fellow (s)

2503 TAFE TEACHERS

TAFE (TECHNICAL AND FURTHER EDUCATION) TEACHERS teach trade and post-trade, technical,

para-professional, commercial, basic vocational, preparatory and adult education courses.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree, diploma or trade certificate plus a 1-2 year teaching diploma. TAFE Teachers (Trades) also require 5 years experience as a Tradesperson. Some States/Territories require maintenance of trade registration.

TASKS include:

- assisting with the administration of TAFE teaching and co-ordination of a teaching timetable
- presenting lesson material, discussions, workshops and laboratory sessions
- preparing, administering and marking projects, assignments and examinations to assess students
- participating in staff meetings, educational and trade related conferences and course development
- advising students on courses and related matters

OCCUPATIONS

- 2503-01 Head of School (TAFE)**
Head of Department (TAFE) (s)
Head Teacher (TAFE) (s)
- 2503-11 TAFE Teacher (Trades)**
- 2503-13 TAFE Teacher (General Education)**

2505 EXTRA-SYSTEMIC TEACHERS AND INSTRUCTORS

EXTRA-SYSTEMIC TEACHERS AND INSTRUCTORS instruct and train students in subjects such as art, music, dance and drama, in establishments external to the education system.

GROUP DEFINITIONS

PROFESSIONALS

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in the relevant subject area. Driving and Flying Instructors and Nurse Educators are required to be licensed and/or registered.

TASKS include:

- planning programme of study for individual students or groups
- preparing and presenting material on theory of subject area
- instructing and demonstrating practical aspects of subject area
- assessing students and offering advice, criticism and encouragement

OCCUPATIONS

2505-11 Art Teacher (Private)

2505-13 Music Teacher (Private)
Singing Teacher (Private) (s)

2505-15 Dance Teacher (Private)
Ballet Teacher (s)

2505-17 Drama Teacher (Private)
Elocution Teacher (s)

2505-19 Driving Instructor

2505-21 Flying Instructor
Gliding Instructor (s)

2505-23 Ground School Instructor

2505-25 Nurse Educator
Clinical Nurse Teacher (s)

**2505-99 Extra-Systemic Teachers and Instructors
nec**
Aerobics Instructor (s)
Dressmaking Teacher (Private) (s)
Fitness Instructor (s)
Handicrafts Teacher (Private) (s)
Physical Fitness Instructor (s)
Sports Instructor (s)

MINOR GROUP 26 SOCIAL PROFESSIONALS

SOCIAL PROFESSIONALS provide guidance to clients or members of their congregation in social, educational, vocational, legal and spiritual matters, to enable them to find and use resources to overcome difficulties and achieve particular goals.

Occupations in this minor group have a level of skill commensurate with a 3-4 year degree or diploma.

Tasks performed by Social Professionals typically include discussing, analysing and assessing legal, social or spiritual needs of individuals, groups or committees; advising individuals or groups of their rights and obligations and on possible courses of action; representing or supporting individuals or groups undergoing difficulties; performing ceremonies and preparing documents in connection with social, spiritual and legal matters or important personal events; maintaining records and writing reports.

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

- 2601 SOCIAL WORKERS**
- 2603 COUNSELLORS**
- 2605 LAWYERS**
- 2607 MINISTERS OF RELIGION**

2601 SOCIAL WORKERS

SOCIAL WORKERS plan, assess, administer and implement programmes in accordance with social policy and individual needs. They may supervise or train students and staff.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or graduate diploma in Community, Welfare or Social Work.

TASKS include:

- assessing individual, family or community need for social welfare programs
- advising individuals or groups in need or referring them to the appropriate community service or self-help agency
- evaluating, improving and developing welfare services
- compiling case records or reports
- providing follow-up services for clients

OCCUPATIONS

- 2601-11 Social Planner and Administrator**
- 2601-13 Community Social Worker**
- 2601-15 Social Case Worker**

2603 COUNSELLORS

COUNSELLORS assess clients' needs and provide information and advice on educational, vocational, legal or social matters.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree in the Social Sciences or post-graduate diploma in Counselling.

TASKS include:

- collecting data relevant to clients' needs
- conducting counselling or therapeutic interviews
- analysing situations and presenting alternative approaches
- informing judges or legal practitioners of aspects of clients' cases relevant to Family Court proceedings
- liaising with voluntary, State, Federal and other welfare organisations

OCCUPATIONS

- 2603-11 Rehabilitation Counsellor**
Drug and Alcohol Counsellor (s)
- 2603-13 Marriage Counsellor**
Family Counsellor (a)
Relationship Counsellor (a)
Family Therapist (s)
- 2603-15 Family Court Counsellor**
- 2603-17 Careers Counsellor and Adviser**
Vocational Counsellor (a)
- 2603-99 Counsellors nec**
Educational Counsellor (s)
Housing Counsellor (s)
Student Counsellor (s)

2605 LAWYERS

LAWYERS advise clients on legal matters, draw up documents, draft legislation, and negotiate, prepare

GROUP DEFINITIONS

and conduct court cases on behalf of individuals, corporations or Government.

SKILL LEVEL

The entry requirement for this unit group is a 4-5 year degree or post-graduate degree. 1 year on-the-job training is usual.

TASKS include:

- preparing cases by investigating circumstances, researching relevant statutes and previous court decisions
- briefing other legal professionals
- representing clients in court
- advising on legal, constitutional or parliamentary matters
- drawing up wills, documents relating to court matters, sale and purchase of land, leases and mortgages
- liaising with other law firms and relevant organisations
- researching and preparing reports/proposals on law reform and administration

OCCUPATIONS

- 2605-11** Barrister
Queen's Counsel (s)
- 2605-13** Solicitor
- 2605-91** Articled Clerk
- 2605-99** Lawyers nec
Corporate Legal Officer (s)
Judge's Associate (s)
Parliamentary Counsel (s)

PROFESSIONALS

2607 MINISTERS OF RELIGION

MINISTERS OF RELIGION conduct services and provide spiritual guidance and motivation for a congregation, parish or community.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or diploma or associate diploma in religious belief and practice.

TASKS include:

- preparing and conducting services of public worship and administering sacraments in accordance with the accepted ceremonial requirements of the respective denomination
- participating in the social and welfare activities of a community and encouraging social responsibility
- instructing in religious principles and practice
- advising individuals or groups in need or referring them to the appropriate welfare or self-help agency
- performing marriage, funeral and special memorial services
- maintaining records as required by civil or church law

OCCUPATIONS

- 2607-11** Minister of Religion
Aboriginal Ceremonial Celebrant (s)
Chaplain (s)
Clergyman/woman (s)
Deacon/Deaconess (s)
Priest (s)
Rabbi (s)
Religious Brother (s)
Religious Sister (s)
Salvation Army Officer (s)
Student Minister (s)

MINOR GROUP 27 BUSINESS PROFESSIONALS

BUSINESS PROFESSIONALS develop, implement and administer systems and programmes to provide accounting, publicity, staffing, staff development and training, and computing services, and conduct research to develop new techniques and applications in these areas.

Occupations in this minor group have a level of skill commensurate with a 3 year degree or diploma.

Tasks performed by Business Professionals typically include collecting, organising, analysing, presenting and interpreting financial, staff, computing and other business information; co-ordinating and undertaking research, and analysing results; developing methods to improve and promote business operations and effectiveness; preparing reports, manuals, statements and publicity material; designing or advising on computing systems; and writing computer software.

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

- 2701 ACCOUNTANTS**
- 2703 PUBLIC RELATIONS OFFICERS**
- 2705 PERSONNEL SPECIALISTS**
- 2707 COMPUTING PROFESSIONALS**
- 2799 OTHER BUSINESS PROFESSIONALS**

2701 ACCOUNTANTS

ACCOUNTANTS plan and provide accounting and auditing systems and services, and advise individuals and enterprises on accounting matters. They may supervise, or receive training in, occupations in this unit group.

SKILL LEVEL

The entry requirement for this unit group is a degree, diploma or business certificate. Special registration may be required under various State legislation for practice as a company auditor, liquidator, tax agent or to audit under certain acts.

TASKS include:

- collecting, analysing and interpreting information on financial standing, cost structures and trading effectiveness of organisations
- devising, reorganising or establishing budgetary cost control and other accounting systems, including computer based systems
- conducting audits and investigations
- preparing financial statements and reports for management, shareholders, statutory or other bodies

OCCUPATIONS

- 2701-11 Accountant**
Auditor (s)
Bursar (s)
Liquidator (s)
Tax Agent (s)
- 2701-91 Trainee Accountant**
Cadet Accountant (a)

2703 PUBLIC RELATIONS OFFICERS

PUBLIC RELATIONS OFFICERS plan, organise and conduct programmes of information dissemination to promote a favourable view of an organisation, product or services among the public.

SKILL LEVEL

The entry requirement for this unit group is a degree or diploma.

TASKS include:

- commissioning research into public opinion, analysing findings and planning publicity campaigns accordingly
- co-ordinating the work of other researchers and publicity writers, appraising and revising their work
- preparing news releases
- commissioning or obtaining photographs or other illustrative material
- organising exhibitions, seminars, entertainment, competitions and social functions to promote good-will and give favourable publicity
- arranging interviews and other dealings with publicity media on employers behalf and representing employer at business, social and other functions

OCCUPATIONS

- 2703-11 Public Relations Officer**
Information Officer (Public Relations) (a)
Publicity Officer (a)
Advertising Account Executive (s)
Marketing Officer (s)
Media Officer (s)
Press Officer (s)
Promotions Officer (s)

2705 PERSONNEL SPECIALISTS

PERSONNEL SPECIALISTS plan, develop, implement and evaluate staff development, training and recruitment programmes and organise staffing in commercial, industrial, government or other organisations.

SKILL LEVEL

The entry requirement for this unit group is a degree or diploma in social science, personnel or management studies.

TASKS include:

- assessing staffing needs
- devising general and specialised staff training programmes and performance appraisal procedures/programmes
- compiling training manuals, visual aids and materials
- advising management on development, placement and promotion of staff and on personnel procedures
- counselling staff on vocational matters, grievances and difficulties
- assisting in planning recreational services and safety programmes and in implementing equal opportunity, anti-discrimination and other such programmes

OCCUPATIONS

2705-11 Personnel Officer
Employment Officer (s)
Equal Employment Officer (s)
Recruitment Officer (s)

2705-13 Training Officer

2705-15 Staff Development Officer

RELATED OCCUPATIONS

1309-11 Personnel and Industrial Relations Manager
2603-17 Careers Counsellor and Adviser
3901-15 Welfare Officer
5905 Personnel Clerks

2707 COMPUTING PROFESSIONALS

COMPUTING PROFESSIONALS design and prepare software to meet specific requirements in all aspects of the computing environment, control and audit the operation of computing facilities within an organisation, and research theoretical aspects of computing.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma in computer science. However, EDP Auditors may enter with a 3-4 year degree in accounting, and Computer Systems Analysts with a 3-4 year degree in electronic engineering. Database Administrators require an additional 5 years experience in an area related to database management.

TASKS include:

- writing, testing and maintaining operations or end-use software
- analysing systems to determine whether all specific requirements within an organisation are met
- developing and improving data processing procedures
- designing and modifying operating environment software to link with other software or with hardware
- maintaining data dictionary and data management system of database to ensure integrity and security of data
- conducting research into computers and computer based systems
- developing techniques for the application of computing theory
- analysing computer operations and usage to assess completeness, accuracy, validity and efficiency of system

OCCUPATIONS

2707-11 Applications Programmer

2707-13 Systems Programmer
Software Programmer (a)
Communications Programmer (s)
Database Programmer (s)

2707-15 Analyst Programmer

2707-17 Computer Systems Analyst
Computer Analyst (a)
EDP Analyst (a)
Communications Analyst (s)
Database Analyst (s)
Telecommunications Analyst (s)

2707-19 Software Engineer
Computer Systems Engineer (Software) (a)
Computer Systems Designer (Software) (s)

2707-21 Database Administrator

2707-23 Computer Scientist

2707-25 EDP Auditor
Computer Auditor (a)
EDP Security Analyst (s)

RELATED OCCUPATIONS

2211-13 Electronics Engineer
2799-15 Organisation and Methods Analyst
3201-15 Electronics Engineering Associate
3201-17 Electronics Engineering Technician

2799 OTHER BUSINESS PROFESSIONALS

This unit group covers occupations not elsewhere classified in Minor Group 27, Business Professionals.

SKILL LEVEL

The entry requirement for this unit group is a degree or diploma in the appropriate discipline.

OCCUPATIONS

2799-11 Medical Record Administrator
Medical Record Librarian (a)
Health Data Administrator (s)

PROFESSIONALS

GROUP DEFINITIONS

- 2799-13 Industrial Relations Officer**
 - Industrial Officer (a)
 - Trade Union Official (s)
 - Trade Union Organiser (s)

- 2799-15 Organisation and Methods Analyst**
 - Procedures Analyst (a)
 - Work Study Officer (s)

- 2799-99 Business Professionals nec**
 - Management Consultant (s)

MINOR GROUP 28 ARTISTS AND RELATED PROFESSIONALS

ARTISTS AND RELATED PROFESSIONALS communicate ideas, facts and impressions by deliberately manipulating aesthetic variables in a wide range of media to achieve particular effects, evaluate and edit or amend the result, interpret the physical representation of a composition such as a musical score or a script in order to perform it or direct its performance, and host the presentation of such performances and other events.

Occupations in this minor group have a level of skill commensurate with a 3 year degree or diploma.

Tasks performed by Artists and Related Professionals typically include collecting and analysing information and conceiving and developing ideas; selecting media materials and methods for the presentation of ideas; writing, reviewing and editing journalistic copy, literary work, musical compositions or film, television and radio scripts; presenting information and producing, directing, performing and recording various kinds of entertainment; editing sound and/or visual recordings of performances; expressing ideas visually by painting, drawing, sculpting, photography or lighting.

Craftworkers are excluded from this minor group because of their emphasis on the function of their product and the technical aspects of its production. They can be found in Unit Group 4925, Craftworkers.

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

- 2801 PAINTERS, SCULPTORS AND RELATED PROFESSIONALS**
- 2803 PHOTOGRAPHERS**
- 2805 DESIGNERS AND ILLUSTRATORS**
- 2807 JOURNALISTS**
- 2809 AUTHORS AND RELATED PROFESSIONALS**
- 2811 FILM, TELEVISION AND STAGE DIRECTORS**
- 2813 DANCERS AND CHOREOGRAPHERS**
- 2815 MUSICIANS, COMPOSERS AND RELATED PROFESSIONALS**
- 2817 ACTORS AND RELATED PROFESSIONALS**
- 2819 ANNOUNCERS**

2801 PAINTERS, SCULPTORS AND RELATED PROFESSIONALS

PAINTERS, SCULPTORS AND RELATED PROFESSIONALS create visual forms using painting, drawing, printing, electronic or other media, and three dimensional forms by carving, modelling or constructing in order to communicate an impression or idea.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma.

TASKS include:

- conceiving and developing ideas for artistic presentation, and selecting and arranging subject
- selecting artistic medium, method and materials, and preparing materials
- painting and drawing or sculpting stone, wood, clay, wax or other material into desired shape, using techniques to harmonise relationships of line, colour, design and mass into a unified artistic arrangement

OCCUPATIONS

- 2801-11 Painter (Artistic)
Artist (Painting) (a)
Cartoonist (s)**
- 2801-13 Sculptor**
- 2801-99 Painters, Sculptors and Related Professionals nec
Environmental Artist (s)
Etcher (Artistic) (s)
Laser Artist (s)
Printmaker (s)
Scene Painter (Performing Arts) (s)**

2803 PHOTOGRAPHERS

PHOTOGRAPHERS operate still cameras to take photographs of persons, places, merchandise and other subjects.

PROFESSIONALS

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma or a 2 year basic vocational or para-professional certificate.

TASKS include:

- selecting type of camera, film, artificial lighting or flash
- setting up, or directing assistant to set up, equipment at assigned location
- measuring light levels and determining exposure
- adjusting camera angle, aperture setting and subject to achieve desired composition
- rearranging lighting and filters to bring out highlights and colours

OCCUPATIONS

2803-11 Photographer

2805 DESIGNERS AND ILLUSTRATORS

DESIGNERS AND ILLUSTRATORS create designs for new types and styles of clothing and accessories, new commercial and industrial products, and building interiors, or do artwork and illustrations for presentation by a wide variety of media.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma. For fashion designers a 2-3 year para-professional certificate is required.

TASKS include:

- determining the objectives of the design by consulting with client, undertaking research, analysing functional requirements or studying layouts
- formulating design concept for garment or fashion accessory, copy layout, commercial or industrial product, building interior or illustration
- preparing illustrations or sketches to communicate design concept
- discussing design with management, sales and manufacturing staff, and clients
- supervising the production of sample garment or accessory, instructing other workers making models or patterns of products, or instructing finishing or layout artists assembling artwork for printing
- selecting or recommending decorative and functional materials for building interior

OCCUPATIONS

2805-11 Fashion Designer
Costume Designer (s)

2805-13 Graphic Designer
Commercial Artist (a)
Animator (s)
Calligrapher (s)
Display Artist (s)
Exhibition Designer (s)
Package Designer (s)
Publication Designer (s)
Set Designer (s)

2805-15 Industrial Designer
Product Designer (a)
Furniture Designer (s)
Textile Designer (s)

GROUP DEFINITIONS

2805-17 Interior Designer

2805-19 Illustrator

RELATED OCCUPATIONS

3999-17 Layout Artist
3999-21 Interior Decorator

2807 JOURNALISTS

JOURNALISTS write and edit news reports, commentaries and feature stories for presentation by print or electronic media or compose written material to advertise products or services. They may receive training in occupations in this unit group.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or cadetship, or a 1 year graduate cadetship. A 2 year associate diploma is required for Copy-writers.

TASKS include:

- collecting and analysing facts about newsworthy events from interviews, printed matter, investigations and observations
- determining advertising approach by consulting client and management, and studying product
- writing news reports, commentaries on topics of public interest, feature stories and newspaper headlines
- writing headline and text of advertisements
- reviewing copy for publication to ensure conformity with accepted rules of grammar, style and format, coherence of story, and accuracy and legality of content
- instructing printer on type to use for headlines and text and selecting photographs and drawings to illustrate copy

OCCUPATIONS

2807-01 Associate Editor
Assistant Editor (a)
News Editor (s)

2807-11 Sub-editor

2807-13 Reporter
News Correspondent (s)
Radio Journalist (s)
Roundsman/woman (News) (s)

2807-15 Copy-writer
Continuity Writer (s)

2807-91 Cadet Journalist

2807-99 Journalists nec
Columnist (s)
Critic (s)
Editorial Assistant (s)
Editorial Writer (s)
Freelance Journalist (s)
Leader Writer (s)

2809 AUTHORS AND RELATED PROFESSIONALS

AUTHORS AND RELATED PROFESSIONALS write, edit and evaluate literary works for publication and scripts for stage, film, radio and television productions.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or 2 year associate diploma.

TASKS include:

- selecting essay, play, novel, poem or film, radio or television script
- writing manuscript of literary composition or script
- reviewing and evaluating manuscripts of books submitted by authors or literary agents of scripts, stories and other material for radio, television, stage or motion picture production
- editing, or supervising editing of, material for coherence of style and grammar, and overseeing preparation of manuscript for publication

OCCUPATIONS

- 2809-11 Author**
 Librettist (s)
 Novelist (s)
 Playwright (s)
 Poet (s)
 Screenwriter (s)
 Script Writer (s)
- 2809-13 Book Editor**
- 2809-15 Script Editor**

2811 FILM, TELEVISION AND STAGE DIRECTORS

FILM, TELEVISION AND STAGE DIRECTORS direct the overall production, or specific aspects of production, of motion pictures, radio or television programmes and stage shows.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or a 2 year associate diploma. On-the-job training of at least 6 months is usual.

TASKS include:

- studying script to determine artistic interpretation
- planning and arranging set designs, sound effects and lighting
- selecting costumes for motion picture, stage or television production
- selecting cast and allocating roles by viewing performances, conducting screen tests and auditions, and searching through talent files
- planning, directing and co-ordinating the filming of a motion picture or television programme, or the taping and broadcasting of a radio production
- editing film or video tape to produce desired effect and adding sound track music and other audio effects
- co-ordinating activities of studio or stage crew, performers and technicians during rehearsals and productions of programmes

OCCUPATIONS

- 2811-11 Art Director (Television, Film or Stage)**
- 2811-13 Casting Director**
 Casting Officer (a)
- 2811-15 Director (Film or Stage)**
- 2811-17 Director of Photography**
 Cinematographer (a)
- 2811-19 Film Editor**
- 2811-21 Stage Manager**
 Floor Manager (Television) (s)
- 2811-23 Director (Radio or Television)**
- 2811-25 Technical Producer**
 Technical Director (a)

2813 DANCERS AND CHOREOGRAPHERS

DANCERS AND CHOREOGRAPHERS create and perform dances and instruct dancers in the interpretation and performance of dances.

SKILL LEVEL

The entry requirement for this unit group is a 3 year degree or diploma or a 2 year associate diploma.

TASKS include:

- studying musical score, story or theme and consulting with production staff to determine interpretation
- creating dances to harmonise with music and subject, illustrate story, interpret emotion or complement musical show
- instructing dancers in performance of movements of dance
- performing classical, modern or acrobatic dances for audience
- practising regular dance exercises to maintain required physical condition of body and limbs and control of movements
- rehearsing dances under direction and instruction or developing own interpretation

OCCUPATIONS

- 2813-11 Choreographer**
- 2813-13 Dancer**
 Ballet Dancer (s)
 Striptease Artist (s)
 Tap Dancer (s)

RELATED OCCUPATIONS

- 2505-15 Dance Teacher (Private)

2815 MUSICIANS, COMPOSERS AND RELATED PROFESSIONALS

MUSICIANS, COMPOSERS AND RELATED PROFESSIONALS write, arrange, orchestrate, perform and conduct musical compositions.

PROFESSIONALS

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma. 2-5 years previous experience in a related music field is also usual for Music Directors.

TASKS include:

- creating and writing musical compositions
- arranging musical compositions by selecting combinations of instruments and voices and by modifying harmonic structures, rhythms, tempos and music dynamics
- transcribing parts from musical score for each instrument or voice within a musical group or transposing music from one instrument or voice to another
- playing musical instruments in recital, as accompaniment, or as a member of an orchestra, band or other musical group
- singing classical, church or popular music as a soloist, or member of vocal ensemble, opera cast or musical group
- selecting music, assigning parts to individual musicians and singers, and directing musical performance

OCCUPATIONS

- 2815-11 Music Director**
Band Leader (s)
Choral Director (s)
Orchestra Conductor (s)
- 2815-13 Concert and Opera Singer**
- 2815-15 Popular Singer**
Vocalist (a)
- 2815-17 Instrumental Musician**
Instrumentalist (a)
Accompanist (s)
- 2815-19 Composer**
Songwriter (s)
- 2815-99 Musicians, Composers and Related Professionals nec**
Chorister (s)
Chorus Singer (s)
Music Arranger (s)
Music Copyist (s)
Orchestrator (s)

2817 ACTORS AND RELATED PROFESSIONALS

ACTORS AND RELATED PROFESSIONALS play roles in dramatic productions, and perform humorous routines and variety acts, on stage, film, radio, television or elsewhere to entertain audiences.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or diploma or, for Actors only, a 2 year associate diploma.

GROUP DEFINITIONS

TASKS include:

- studying play or production to gain understanding of part and characterisation
- learning lines and cues and rehearsing part
- acting part in medium of presentation, interpreting role by speech and gesture
- telling jokes or humorous stories, singing humorous songs, performing comedy dances and acts to amuse audience
- performing a variety of acts, dances, songs, impersonations, mimes, ventriloquism, acrobatics, juggling or magical tricks to entertain audiences
- compering performances for the purpose of entertainment

OCCUPATIONS

- 2817-11 Actor**
- 2817-13 Variety Artist**
Circus Artist (s)
Clown (s)
Comedian (s)
Acrobat (s)
Hypnotist (s)
Impersonator (s)
Juggler (s)
Magician (s)
Ventriloquist (s)
- 2817-99 Actors and Related Professionals nec**
Mime (s)
Puppeteer (s)
Stuntman/woman (s)

2819 ANNOUNCERS

ANNOUNCERS broadcast news, sports and other information on radio, television or public address systems, and introduce and host special events.

SKILL LEVEL

The entry requirement for this unit group is a basic vocational course.

TASKS include:

- announcing programmes and music
- introducing entertainment items, entertainers, speakers and celebrities
- reading prepared news bulletins and special announcements
- describing and commenting on sports, processions and other events
- presenting opinions on sports, politics, social or economic matters

OCCUPATIONS

- 2819-11 Announcer**
Commentator (a)
Compere (s)
Disc Jockey (s)

MINOR GROUP 29 MISCELLANEOUS PROFESSIONALS

This residual minor group covers all occupations in Major Group 2, Professionals, which are not included in Minor Groups 21-28 above.

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

- 2901 ECONOMISTS**
- 2903 PSYCHOLOGISTS**
- 2905 EDUCATION RESEARCHERS AND RELATED PROFESSIONALS**
- 2907 OTHER SOCIAL SCIENTISTS**
- 2909 MATHEMATICIANS, STATISTICIANS AND ACTUARIES**
- 2911 LIBRARIANS**
- 2999 OTHER PROFESSIONALS**

2901 ECONOMISTS

ECONOMISTS study and report on a wide range of theoretical or applied subjects relating to the economy at large or to particular industries.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree or higher degree.

TASKS include:

- analysing interrelationships between economic variables
- selecting established economic techniques or developing new ones for analysis
- preparing reports and studies
- identifying the need for policy responses

OCCUPATIONS

- 2901-11 Economist**
 Agricultural Economist (s)
 Econometrician (s)
 International Trade Economist (s)
 Labour Economist (s)
 Macro-economist (s)
 Transport Economist (s)

2903 PSYCHOLOGISTS

PSYCHOLOGISTS devise and use psychological principles and techniques to investigate and assess cognitive, behavioural or emotional disorders or difficulties and provide treatment or counselling to foster optimal personal, social, educational or occupational adjustment and development.

SKILL LEVEL

The entry requirement for this unit group is a 4-6 year degree or higher degree.

TASKS include:

- constructing achievement, diagnostic and predictive tests

- administering tests and assessing data to identify the source of problems and appropriate treatment
- conducting counselling or therapeutic interviews
- researching study motivation, teaching skills, occupational behaviour, working conditions and organisational structures
- providing follow-up services to groups and individuals for support and evaluation purposes
- evaluating the results of programmes on personal and organisational effectiveness with reference to statistical data

OCCUPATIONS

- 2903-11 Clinical Psychologist**
 Neuropsychologist (s)
- 2903-13 Educational Psychologist**
 Educational Guidance Officer (a)
 School Psychologist (s)
- 2903-15 Occupational Psychologist**
 Industrial Psychologist (a)
 Organisational Psychologist (a)
 Military Psychologist (s)
 Sports Psychologist (s)

2905 EDUCATION RESEARCHERS AND RELATED PROFESSIONALS

EDUCATION RESEARCHERS AND RELATED PROFESSIONALS conduct educational research and develop course curricula and associated materials for educational institutions or, in a consultant or specialist capacity, advise school teachers and administrative officials on a particular area of education.

SKILL LEVEL

The entry requirement for this unit group is a 3-5 year degree or diploma or a post-graduate diploma.

TASKS include:

- researching educational systems and evaluating new developments
- conferring with teachers and education officials to co-ordinate programmes

PROFESSIONALS

- identifying needs and planning, developing or modifying programmes within the education system
- developing operational or training programmes
- reviewing schools and assessing teachers
- assisting and advising teachers
- documenting subjects and courses developed
- preparing reports and information papers

OCCUPATIONS

2905-11 Curriculum Development Officer
Curriculum Advisory Teacher (s)

2905-13 Education Officer
Early Child Care Adviser (s)
Home-School Liaison Officer (s)
Pre-School Adviser (s)
School Inspector (s)
School Superintendent (s)

2907 OTHER SOCIAL SCIENTISTS

OTHER SOCIAL SCIENTISTS study human behaviour and institutions from current or historical perspectives with a view to understanding the development, structure, patterns and interrelationships within societies and/or preserving items of historical interest or advising on policy or planning matters in relation to particular social institutions or the physical environment.

SKILL LEVEL

The entry requirement for this unit group is a 4-6 year degree and/or higher degree.

TASKS include:

- compiling and analysing data on economic, legal, political, cultural, demographic, physical and environmental factors affecting land use
- observing, collecting and measuring data related to area of geographical specialisation
- compiling historical data through research into primary and secondary sources, consultation and interview
- drafting and presenting graphic and narrative plans, programmes and designs affecting land use, public utilities, community facilities, housing and transportation
- advising governments and organisations on urban and regional planning and resource planning
- organising, authenticating, evaluating and interpreting historical, political, sociological, anthropological and linguistic data
- presenting findings in written form

OCCUPATIONS

2907-11 Urban and Regional Planner
Town Planner (s)
Traffic and Transport Planner (s)

2907-13 Geographer
Biogeographer (s)
Economic Geographer (s)
Physical Geographer (s)

2907-15 Historian
Economic Historian (s)

2907-99 Social Scientists nec
Anthropologist (s)

GROUP DEFINITIONS

Archaeologist (s)
Criminologist (s)
Linguist (s)
Market Research Analyst (s)
Political Scientist (s)
Prehistorian (s)
Sociologist (s)

2909 MATHEMATICIANS, STATISTICIANS AND ACTUARIES

MATHEMATICIANS, STATISTICIANS AND ACTUARIES apply mathematical and statistical principles and techniques to a range of tasks including designing statistical collections, studying financial policy and investment, conducting scientific research and solving engineering, management and other problems.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree.

TASKS include:

- assessing risks and analysing investments in a variety of financial areas
- advising management on corporate investment policy
- selecting, designing or developing methods of obtaining statistical data
- planning and organising surveys and designing questionnaires
- advising on data collection and determining reliability of findings
- analysing and interpreting data
- developing mathematical theory and models to simulate processes in the physical, biological and social sciences or to solve management problems
- developing and performing computations and applying methods of numerical analysis

OCCUPATIONS

2909-11 Mathematician
Operations Research Analyst (s)

2909-13 Statistician
Biometrician (s)
Demographer (s)
Mathematical Statistician (s)

2909-15 Actuary

2911 LIBRARIANS

LIBRARIANS develop, organise and maintain a collection of written and recorded material and provide an information service for users based on the collection itself and on library and information networks.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree plus graduate diploma or equivalent.

TASKS include:

- reviewing, evaluating and modifying services in response to community and user needs

GROUP DEFINITIONS

- selecting and recommending for acquisition, books, periodicals, audio-visual and other recorded material
- organising, classifying and cataloguing library material
- administering the inter-library loan systems and information networks

OCCUPATIONS

2911-11 Librarian
Bibliographer (s)
Cataloguer (s)

2999 OTHER PROFESSIONALS

This unit group covers occupations not elsewhere classified in Minor Group 29, Miscellaneous Professionals.

SKILL LEVEL

The entry requirement for this unit group is a 3-4 year degree.

PROFESSIONALS

OCCUPATIONS

2999-11 Conservator

2999-13 Archivist

2999-15 Research Workers nec

2999-17 Recreation Officer
Recreation Adviser (a)
Activities Officer (s)

2999-19 Interpreter

2999-21 Translator

2999-23 Intelligence Officer

2999-99 Professionals nec
Clerk of High Court (s)
Court Registrar (s)
Ergonomist (s)
Executive Assistant (s)
Industrial Registrar (s)
Master of the Court (s)
Military Personnel Selection Assessor (s)
Occupational Hygienist (s)
Oenologist (s)
Patent Examiner (s)
Prothonotary (s)

