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 **Latest release**

Sub-major Group

31 Building, Engineering, ICT and Scientific Technicians

OSCA - Occupation Standard Classification for Australia

Reference period: 2024, Version 1.0

Released 6/12/2024

31 Building, Engineering, ICT and Scientific Technicians

Perform tests and experiments, and provide technical support to Managers and Professionals engaged in research, design and development in the areas of agriculture, medicine, science, building, engineering, ICT and telecommunications.

OSCA skill level

The occupations in this sub-major group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Minor Group

311 Agricultural, Health and Science Technicians

Perform tests and experiments including inspecting animals, plants and agricultural produce, and provide support to Managers and Professionals engaged in agriculture, health and science.

OSCA skill level

The occupations in this minor group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Unit Group

3111 Agricultural Technicians and Inspection Officers

Provide technical support to Managers and Professionals engaged in agriculture, and perform tests and experiments including inspecting animals, plants and agricultural produce and facilities, to ensure compliance with government and industry standards.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

311131 Agricultural and Agritech Technician

Performs tests and experiments, and provides technical support to assist Agricultural Research Scientists, Agronomists, and Aquaculture or Fisheries Scientists in areas such as research, production, servicing and marketing, and advises on, installs and services advanced agriculture technology and equipment, such as precision agricultural solutions, virtual fencing and automatic milking machines.

Specialisations

- Agriculture Laboratory Technician
- Precision Agricultural Technician

Skill level: 2

Main tasks

- Examines topographical, physical and soil characteristics of farmland to determine its most effective use and identify nutrient deficiencies
- Assists Agricultural Research Scientists in developing new methods of planting, fertilising, harvesting and processing crops to achieve optimum land usage
- Identifies pathogenic microorganisms and insects, parasites, fungi and weeds harmful to crops and livestock, and assists in devising methods of control
- Provides advice, training and technical support and services on technology solutions such as sensors, farm management software, data and robotics
- Installs, programs, tests, repairs and maintains advanced agriculture technology and equipment
- Develops, operates and maintains complex technological systems and equipment in farm production, including analysing data and preparing reports
- Applies geospatial and other technology systems to support primary production, such as automatic tractor guidance systems, variable rate chemical input applications, and survey equipment

Occupation

311132 Animal Husbandry Technician

Undertakes technical animal husbandry tasks such as pregnancy testing, artificial insemination, lactation management, and providing nutrition assessment and advice to assist in the breeding, raising and managing of livestock.

Registration or licensing may be required.

Specialisation

- Artificial Insemination Technician

Skill level: 2

Main tasks

- Assists with breeding and raising livestock
- Monitors livestock to evaluate the effectiveness of feed formulae, and assists with the management of livestock nutrition and feeding programs
- Assists in controlled breeding experiments to develop improved livestock strains
- Artificially inseminates livestock for breeding purposes, conducts pregnancy tests, manages lactation, and cares for young animals

- Provides advice on breeding selection and techniques
- Monitors and maintains the health and welfare of livestock
- Collects and collates data for research and animal husbandry purposes

Occupation

311133 Aquaculture or Fisheries Technician

Assists Aquaculture Farmers and Fisheries Scientists in raising and managing aquatic stock by undertaking onshore and offshore technical fish husbandry tasks, sampling water, analysing data from ponds, pens and tanks, and identifying common diseases and pests. Performs tests and experiments, and provides technical support in areas such as research, production, servicing and marketing.

Specialisations

- Fisheries Technical Officer
- Hatchery Technician (Aquaculture)

Skill level: 2

Main tasks

- Monitors and maintains water quality in aquaculture facilities, including the collection and analysis of water samples
- Identifies pathogenic microorganisms, fungi and other pests harmful to aquatic stock, and assists in devising methods of control
- Examines environmental and other factors that influence the growth, health and production of aquatic stock
- Monitors aquatic stock to gauge the effectiveness of feed formulae
- Assists in controlled breeding experiments to develop improved aquatic stock strains
- Conducts experiments and tests to improve aquaculture practices
- Provides technical support to Aquaculture Farmers and Fisheries Scientists
- Maintains and repairs equipment and infrastructure in aquaculture facilities

Occupation

311134 Biosecurity Officer

Inspects and assesses goods, conveyances, plants, animals and the environment for biosecurity risk to ensure compliance with laws and regulations, and to prevent the incursion and spread of exotic pests and diseases.

Biosecurity officers (weeds and pests) are excluded from this occupation. Biosecurity officers (weeds and pests) are included in Occupation 591134 Invasive Pest, Weed and Disease Inspector.

Skill level: 2

Main tasks

- Inspects goods, ships, aircraft, passengers, plants and animals, and assesses documentation to confirm compliance with biosecurity requirements
- Issues legal directions to control identified biosecurity risks
- Provides advice about biosecurity matters to customers, clients, staff and managers
- Identifies trends in biosecurity risks, and reports to superiors to assist in targeting intelligence and risk-based activities
- Participates in biosecurity response activities to control and manage biosecurity incidents
- Maintains records of biosecurity inspections, assessments and enforcement actions

Occupation

311135 Fisheries Officer

Inspects fishing vessels, gear, licences and catches to ensure that fisheries laws and regulations are obeyed.

Alternative title

- Fisheries Inspector

Skill level: 2

Main tasks

- Patrols and investigates waterways for unlawful fishing activities and the removal of protected marine life
- Conducts inspections of fishing vessels, gear and equipment to ensure compliance with laws and regulations
- Checks fishing licences and permits to ensure validity
- Monitors and records fishing catches to ensure compliance with catch limits and quotas
- Investigates and responds to reports of illegal fishing activities
- Provides advice and guidance to fishers on sustainable fishing practices
- Educates, advises and provides information on a wide range of topics relating to fish and their protection
- May initiate or assist in legal action to enforce regulations

Occupation

311136 Irrigation Designer

Designs and plans irrigation systems according to licensing, climatic and environmental considerations, water source availability, crop type and soil characteristics.

Alternative title

- Irrigation Planner

Skill level: 2

Main tasks

- Conducts site assessments to identify suitable irrigation systems
- Advises on most effective irrigation methods and equipment for efficient water use that meet the needs of the client and comply with regulations and standards
- Designs efficient and cost-effective irrigation systems based on factors such as water availability, crop type and soil characteristics
- Calculates water requirements and develops irrigation schedules
- Prepares detailed irrigation plans and specifications, including layout, equipment and materials
- Collaborates with engineers and other professionals to ensure compliance of irrigation systems with regulations and standards
- Provides technical support and guidance to clients on the use, scheduling and maintenance of irrigation systems
- Inspects, audits and evaluates irrigation systems to identify and address any issues or inefficiencies

Occupation

311137 Meat Inspector

Inspects animal carcasses, internal organs and meat processing facilities for disease, to ensure compliance with government and industry standards with respect to quality and health.

Registration or licensing may be required.

Skill level: 3

Main tasks

- Inspects animals prior to slaughter, animal carcasses and meat products to identify product quality issues

- Collects pathological and residue samples to assist with identifying disease, parasites, chemical residues and contamination in meat processing facilities and products
- Audits and monitors quality procedures at meat processing facilities to ensure compliance with required quality and health standards
- Provides advice and guidance to meat processing facility staff on best practices for disease prevention

Occupation

311138 Primary Products Quality Assurance Officer

Develops, implements and oversees monitoring, testing and application of quality assurance programs within a primary production or processing enterprise. May monitor production requirements as they relate to food safety, biosecurity or quality assurance.

Specialisations

- Dairy Quality Assurance Officer
- Meat Quality Assurance Officer

Skill level: 2

Main tasks

- Develops, implements, audits and monitors quality assurance procedures at farms and primary product processing facilities to ensure compliance with standards
- Advises producers and processors on regulations related to grading, packing, processing and loading of products
- Ensures that hygiene standards are observed in storage, processing and packing facilities, and transport vehicles
- Informs producers and the general public of the health implications of diseases and impurities impacting primary products
- May monitor production requirements as they relate to food safety, biosecurity or quality assurance

Occupation

311199 Agricultural Technicians and Inspection Officers nec

This occupation group covers Agricultural Technicians and Inspection Officers not elsewhere classified.

Skill level: 2

Occupations in this group include:

- Animal Health Officer
- Food Standards Officer
- Fruit Fly Inspector
- Grain Inspector

Unit Group

3112 Medical and Dental Technicians

Operate anaesthetic, operating theatre and medical testing equipment, construct and repair dentures and other dental appliances, and perform and assist with laboratory tests in support of Health Professionals.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

311231 Anaesthetic Technician

Prepares and maintains anaesthetic equipment for operating theatres or clinics, and assists Anaesthetists during anaesthetic procedures.

Skill level: 2

Main tasks

- Prepares and sets up anaesthetic equipment and supplies for surgical procedures
- Checks and tests anaesthetic equipment to ensure proper functioning, and assists with the insertion of invasive monitoring devices
- Assists with the positioning and preparation of patients for surgery
- Assists Anaesthetists in administering anaesthesia to patients, and monitors vital signs during procedures

- Cleans and sterilises anaesthetic equipment after use, and participates in the maintenance and inventory of anaesthetic supplies and medications

Occupation

311232 Dental Technician

Constructs and repairs dentures and other dental appliances.

Registration or licensing may be required.

Specialisation

- Dental Laboratory Assistant

Skill level: 2

Main tasks

- Creates models of the mouth and teeth from impressions taken by a dental practitioner
- Makes replacement braces, retainers or dentures for patients using plastic, metal or ceramic materials
- Crafts braces, mouthguards and plates for correcting irregular or damaged teeth
- Designs, constructs and repairs ceramic restorations such as crowns, bridges or dentures
- Polishes and finishes braces or retainers before they are placed in a patient's mouth

Occupation

311233 Medical Laboratory Technician

Performs routine medical laboratory tests, and operates diagnostic laboratory equipment under the supervision of Medical Laboratory Scientists and Pathologists.

Registration or licensing may be required.

Alternative titles

- Medical Laboratory Assistant
- Medical Laboratory Technical Officer

Specialisation

- Pathology Technician

Skill level: 2

Main tasks

- Prepares and stains slides and tissue sections to study the cells of blood for histological examination
- Performs diagnostic tests on tissues and fluids, and analyses the chemical constituents of blood, urine, faeces and tissues
- Tests for diseases by looking for the presence of antibodies and the products of immune response in samples
- Operates and maintains laboratory equipment, ensuring accuracy and reliability of test results
- Records and analyses test results, and reports findings to medical professionals
- Assists in the diagnosis and treatment of diseases by providing accurate and timely laboratory test results

Occupation

311234 Operating Theatre Technician

Prepares and maintains an operating theatre and its equipment, assists the surgical team during operations, and provides support to patients in the recovery room.

Skill level: 3

Main tasks

- Prepares operating theatre for surgical procedures, and cleans and sterilises operating theatre equipment and instruments
- Assists surgical team during operations by passing instruments and supplies
- Monitors and maintains sterile field during surgical procedures
- Handles specimens and prepares them for laboratory analysis
- Assists with positioning and transferring patients before and after surgery
- Provides support to patients in the recovery room, monitoring vital signs and assisting with post-operative care

Occupation

311235 Respiratory Technician

Performs routine lung function tests, and uses and maintains diagnostic equipment under the supervision of Respiratory and Sleep Scientists. Monitors patients on ventilation or those undergoing sleep studies.

Alternative title

- Sleep Technician

Specialisation

- Neurophysiological Technician

Skill level: 2

Main tasks

- Performs routine lung function tests and assists with conducting sleep studies on patients
- Uses and maintains diagnostic equipment for respiratory tests
- Monitors patients on ventilation to ensure proper functioning
- Assists Respiratory and Sleep Scientists in analysing test results and making recommendations

Occupation

311299 Medical and Dental Technicians nec

This occupation group covers Medical and Dental Technicians not elsewhere classified.

Skill level: 2

Occupations in this group include:

- Dialysis Technician
- Electroencephalographic Technician
- Hyperbaric Technician
- Mortuary Technician (Forensic)
- Ophthalmic Technician
- Orthotic and Prosthetic Technician
- Perfusionist
- Renal Technician

Unit Group

3113 Pharmacy Technicians

Dispense and label patients' prescriptions, manage scheduled medicines, and provide clinical assistance under the supervision of Community and Hospital Pharmacists.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

311331 Community Pharmacy Technician

Dispenses and labels patients' prescriptions and scheduled medicines under the supervision of a Community Pharmacist.

Alternative titles

- Dispensary Assistant
- Dispensary Technician

Skill level: 3

Main tasks

- Assists Community Pharmacists in dispensing and labelling prescription medication for patients
- Assists Community Pharmacists in conducting medical history for all patients taking scheduled medications
- Assists with labelling Pharmacist Only Medicines under the direction and supervision of a Community Pharmacist
- Provides advice on appropriate health information, medication and other conditions to patients
- Maintains stock of non-prescription and prescription medication
- Prepares medication in dosage administration aids

Occupation

311332 Hospital Pharmacy Technician

Facilitates the provision of hospital pharmacy services through clinical assistance on wards and outpatient clinics, inventory control, and dispensing medications under the supervision of a Hospital Pharmacist.

Skill level: 3

Main tasks

- Conducts medication history and reviews with patients, carers or community health professionals for Hospital Pharmacists
- Prepares a current medicines list for patients
- Refers prescriptions to Pharmacists and assists with preparing medications
- Documents and refers patients with medicine allergies and adverse drug reactions to Hospital Pharmacists
- Assists Hospital Pharmacists with clinical prioritisation by identifying patients at high risk of medicine-related problems
- Records patients' laboratory data for pharmacist review
- Fills and labels patients' prescriptions under the supervision of a pharmacist
- Provides advice on appropriate health information, medication and other conditions to patients

Unit Group

3114 Phlebotomists

Extract, collect, label and preserve blood and other specimens from patients for laboratory analysis.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

311431 Phlebotomist

Extracts, collects, labels and preserves blood and other specimens from patients for laboratory analysis.

Alternative titles

- Pathology Collector
- Specimen Collector

Specialisation

- Blood Collector

Skill level: 3

Main tasks

- Gathers necessary equipment and supplies for specimen collection
- Explains the procedure to patients and addresses any concerns or questions
- Prepares the collection site and cleans the area with antiseptic
- Selects the appropriate collection method and collects blood or other specimens from patients
- Labels and properly documents collected specimens for accurate identification and tracking
- Ensures proper handling and storage of collected specimens to maintain integrity and prevent contamination
- Adheres to infection control and safety protocols during specimen collection
- Maintains accurate records of collected specimens and related information
- Collaborates with laboratory staff to ensure timely and accurate processing of specimens

Unit Group

3115 Science Technicians

Perform tests and experiments, and provide technical support functions to assist with research, design, production and teaching in the natural sciences.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

311531 Chemical Technician

Performs laboratory tests on organic and inorganic chemicals, analyses test data, and carries out technical functions in support of Chemists or Chemical Engineers in a wide variety of areas, such as fuels, agricultural products, food, pharmaceuticals, paints, metals, plastics, textiles, detergents, paper, fertilisers and cosmetics.

Fire assayers are excluded from this occupation. Fire assayers are included in Occupation 313935 Metallurgical or Materials Technician.

Specialisations

- Chemistry Laboratory Technician
- Dairy Laboratory Technician

Skill level: 2

Main tasks

- Assists in setting up and conducting chemical experiments, tests and analysis on organic and inorganic chemicals according to existing procedures
- Assists in the fabrication, installation and modification of chemistry equipment to ensure it meets standards
- Collects samples from production batches, and tests them for impurities and defects
- Sets up and maintains chemistry laboratory equipment, instruments and inventory
- Assists in monitoring the quality of products and processes at chemical manufacturing facilities to ensure they meet standards and specifications
- Undertakes a limited range of technical activities to support chemical research

Occupation

311532 Earth Science Technician

Collects and tests earth and water samples, records observations, and analyses data in support of Geologists, Geophysicists and other earth scientists.

Specialisations

- Earth Science Laboratory Technician
- Geology Technician
- Geoscience Laboratory Technician
- Geotechnician
- Meteorological Observer

Skill level: 2

Main tasks

- Assists in the collection, preparation, testing and analysis of rock, soil and water samples
- Calibrates and maintains testing equipment used by earth scientists
- Assists Geologists, Geophysicists and other earth scientists in the analysis of data

- Supports earth scientists in practical field operations by planning field work, arranging access to sites, and ensuring supplies and equipment are available for field surveys
- Conducts surveys on field sites and other areas of interest
- Collects, records and analyses weather conditions information

Occupation

311533 Geospatial Technician

Analyses and manipulates geospatial data from multiple technologies, formats and projects to form integrated datasets.

Alternative title

- Geographical Information Systems (GIS) Officer

Skill level: 2

Main tasks

- Assists with the development and maintenance of geographical information systems (GIS)
- Creates, maintains, displays and updates GIS databases
- Works with geospatial technology to assist with data gathering, compilation, mapping and data analysis
- Produces accurate maps and other representations of data for use in activities such as fieldwork
- Conducts fieldwork to resolve conflicting information and ensure the accuracy of data
- Records and documents details of map updates, additions and/or deletions

Occupation

311534 Hydrographer

Measures, analyses and maintains the flow and quality of water in rivers, lakes, stormwater and sewage, and assists with surveying and mapping oceans, seas and rivers.

Hydrographic surveyors are excluded from this occupation. Hydrographic surveyors are included in Occupation 241299 Geospatial Information Professionals and Surveyors nec.

Alternative titles

- Hydrographic Technician
- Water Monitoring Officer

Skill level: 2

Main tasks

- Performs routine mathematical calculations and assists in undertaking measurements for surveying and charting bodies of water
- Installs, calibrates and maintains hydrography equipment to monitor water levels and flow, meteorology, sediments and water quality
- Assists in the collection of water surveying data such as coastline identification, bed relief or depth, and heights of water in oceans, rivers or lakes, using navigation systems
- Measures the depth of water bodies, and monitors turbidity and the accumulation of silt
- Uses underwater acoustic equipment to establish and monitor tidal data and outline coastlines

Occupation

311535 Life Science Technician

Identifies, collects and tests living organisms, and conducts field and laboratory studies in support of Life Scientists, Medical Scientists or Environmental Scientists.

Animal technicians and fisheries technical officers are excluded from this occupation.

Animal technicians are included in Occupation 269532 Veterinary Technologist. Fisheries technical officers are included in Occupation 311133 Aquaculture or Fisheries Technician.

Specialisation

- Microbiology Analyst

Skill level: 2

Main tasks

- Assists in the collection and identification of living organisms
- Assists in maintaining records of collected specimens
- Assists with experiments conducted on living organisms and analysis of data collected about them
- Provides technical services and support for scientists in several fields, including biology, agriculture and environmental science

Occupation

311536 School Laboratory Technician

Provides the knowledge, skills and support necessary for practical science activities to be run in schools, and ensures the safety of staff and students in science laboratories, with a focus on chemical and laboratory management.

Registration or licensing is required.

Alternative title

- School Laboratory Manager

Skill level: 2

Main tasks

- Prepares, distributes and sets up samples and/or demonstrations, equipment and associated scientific materials for practical teaching laboratory use
- Assists science teaching staff with demonstrations, instruction of students on the use of equipment during science experiments, and the application of safety measures
- Maintains scientific teaching resources, classrooms, storerooms, preparation rooms and laboratories in a clean, safe, orderly and secure manner
- Operates laboratory equipment and performs routine operator maintenance and instrument calibrations as required, in compliance with manufacturer specifications
- Maintains a safe laboratory waste storage and disposal system in accordance with departmental guidelines
- Works within a budget to ensure that laboratories have the correct equipment to carry out practicals
- Performs record keeping and stocktaking of equipment and materials within the science department
- Ensures personal protective equipment is in working order, communicates safety concerns to teachers, and writes standard operating procedures for equipment and processes to ensure student and staff safety

Occupation

311599 Science Technicians nec

This occupation group covers Science Technicians not elsewhere classified.

Skill level: 2

Occupations in this group include:

- Calibration Technician
- Drug and Alcohol Tester
- Environmental Field Technician

- Fibre Technologist
- Fingerprint Expert
- Textile Technical Officer

Minor Group

312 Building and Construction Technicians

Provide technical support to construction managers, Architects and building professionals by coordinating building designs, inspecting buildings and equipment, estimating construction costs and supervising construction sites.

OSCA skill level

The occupations in this minor group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Unit Group

3121 Building and Landscape Designers and Technicians

Create and coordinate building and landscape designs, produce detailed plans based off architectural drawings, monitor the technical progress of architectural projects, and collect and analyse survey data, in consultation with Architects, Planners and Surveyors, and builders.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

312131 Architectural Technician

Coordinates technical and design information, and monitors the technical progress of architectural projects. Assists with preparing building designs, regulatory applications and construction specifications.

Skill level: 2

Main tasks

- Collates and organises technical building information, interprets designs, and uses models to display architectural plans and specifications using CAD software and drawings
- Assists Architects and building designers by converting designs into blueprints and models
- Interprets designs for Construction Managers, and assists in resolving design construction issues by modifying blueprints and relaying any changes under the instruction of Architects and building designers
- Monitors the technical progress of projects to ensure compliance with design specifications, building codes, and health and safety standards
- May coordinate and manage BIM architecture software, or develop and implement BIM standards for workplaces

Occupation

312132 Building Designer

Creates concepts, designs and detailed documentation for buildings, renovations and extensions in consultation with builders, clients and consultants.

Registration or licensing may be required.

Alternative titles

- Architectural Associate
- Architectural Draftsperson

Skill level: 2

Main tasks

- Consults with builders, clients and consultants to understand design requirements and gather feedback on building designs
- Prepares initial design models for engineering and estimation purposes using BIM
- Takes measurements and dimensions, and performs other routine calculations for building or renovation design layouts
- Provides design recommendations to clients based on factors such as budget, building site constraints, and overall feasibility

- Produces architectural documentation for sketch design and to support applications to councils
- Prepares building designs, models, concepts and estimations using CAD, 3D modelling and BIM software
- Ensures building, renovation and extension designs comply with regulations and standards, and client, certifier and consultant requirements

Occupation

312133 Detailer Drafter

Produces detailed plans, drawings and other documents based on architectural and engineering drawings using BIM for fabricators to manufacture and erect frames, columns, beams, braces and trusses used in residential, commercial and industrial buildings and infrastructure.

Specialisations

- Steel Detailer
- Structural Steel Detailer
- Truss Detailer

Skill level: 2

Main tasks

- Uses BIM technology to prepare plans, drawings and other documents, including specifications for materials required, detailed measurements and installation instructions for building contractors
- Determines the appropriate material for each task based on design plans, and ensures that all designs meet relevant standards and regulations
- Performs calculations to estimate the quantity of materials required to complete a project
- Develops detailed 3D models to detect model clashes to mitigate construction delays and site rectification costs
- Collaborates with Architects, engineers and project managers to ensure the accurate translation of designs into construction plans

Occupation

312134 Landscape Designer

Designs and creates detailed plans and drawings for residential landscapes and small public or commercial landscape projects, with an emphasis on speciality horticulture and the

integration of hard landscape elements to improve the aesthetic and functionality of outdoor spaces.

Skill level: 2

Main tasks

- Consults with clients to prepare outdoor design briefs suitable for the site and the client's lifestyle, budget and preferred aesthetic
- Assesses local site conditions to determine factors that may impact landscape designs
- Explores applications of materials, techniques and trends in landscape design
- Prepares design concepts and drawings for residential gardens including all elements of the hard landscaping design, lighting, soils, drainage and irrigation
- Specifies materials and products used in the construction of landscapes to achieve the desired result for clients
- Collaborates with other professionals, builders and associated trades to prepare landscape construction cost estimates for clients
- Provides advice on ornamental and amenity horticulture, soil improvement, and functional outdoor design in keeping with the surrounding architecture
- Provides recommendations for the ongoing maintenance of newly constructed landscapes or gardens

Occupation

312135 Surveying Technician

Collects and records survey data using surveying instruments such as total stations, GPS equipment, levels and laser scanners. Analyses survey data to develop plans and reports in support of Surveyors.

Specialisation

- Survey Draftsperson

Skill level: 2

Main tasks

- Prepares sketches used to place physical markers on land to define the accurate position of features such as existing property boundaries, proposed building layouts, utilities and road margins on building, construction and mine sites
- Processes data and makes calculations recorded from fieldwork and surveys to prepare detail and feature plans, maps and technical reports
- Maintains and calibrates surveying equipment to ensure accuracy

- Analyses, interprets and manipulates survey data to create 2D and 3D models using CAD and BIM to support Architects and Civil Engineering Professionals

Occupation

312199 Building and Landscape Designers and Technicians nec

This occupation group covers Building and Landscape Designers and Technicians not elsewhere classified.

Skill level: 2

Occupations in this group include:

- Landscaping Draftsperson
- Town Planning Assistant

Unit Group

3122 Construction and Safety Inspectors

Inspect and report on the quality and safety of buildings, plumbing work, machines, equipment, working conditions and public places to ensure compliance with relevant industry standards and regulations.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

312231 Building Inspector

Inspects and reports on the structural quality and safety of buildings. May perform tasks related to regulatory building inspection and reporting in support of Building Surveyors. Registration or licensing may be required.

Specialisations

- Electrical Installation Inspector
- Swimming Pool Inspector

Skill level: 2

Main tasks

- Undertakes pre-purchase building inspections on behalf of clients and prepares pre-purchase reports
- Identifies non-structural defects, structural issues, and conditions that may contribute to structural issues in buildings, and provides reports on their severity along with recommendations for a course of action to be undertaken within a suggested timeframe
- Advises builders, contractors and property owners on building regulations and requirements
- May carry out inspection of buildings to verify if building work complies with approved permits and legislative and building regulations, and produces reports on their non-compliance at the request of a Building Surveyor

Occupation

312232 Energy Assessor

Assesses the energy efficiency of buildings by using computer modelling tools to predict the heating and cooling requirements of buildings based on the design, materials and construction.

Alternative titles

- Energy Efficiency Assessor
- Thermal Performance Assessor

Skill level: 3

Main tasks

- Uses approved software and information from building plans to model potential consumption of energy for heating and cooling purposes to verify compliance with national building codes
- Assesses and certifies the thermal performance of buildings
- Advises on building orientation, materials and construction to improve thermal performance
- Measures and prepares reports on the energy use of buildings, including appliances, heating and cooling, and solar batteries

- Collaborates with Architects, building designers, building surveyors, and energy and sustainability engineers to optimise the thermal performance of buildings

Occupation

312233 Plumbing Inspector

Inspects plumbing work to ensure compliance with relevant standards and regulations. Registration or licensing is required.

Skill level: 2

Main tasks

- Conducts site inspections of plumbing installations to ensure compliance with relevant standards and regulations
- Reviews plans and specifications for plumbing installations to ensure compliance with building codes and regulations
- Issues permits and certificates of compliance for plumbing installations
- Investigates complaints and reports of non-compliance with plumbing regulations
- Provides advice and guidance to Plumbers and property owners on compliance requirements
- Prepares reports and documentation detailing findings and recommendations for corrective action
- Collaborates with other regulatory agencies and stakeholders to ensure consistent enforcement of plumbing regulations

Occupation

312234 Safety Inspector

Inspects machines, equipment, working conditions and public places to ensure compliance with government and industry standards and regulations in relation to work health and safety.

Registration or licensing may be required.

Specialisations

- Boilers and Pressure Vessels Inspector
- Gas Inspector
- Lifts and Cranes Inspector
- Mines Inspector
- Work Health and Safety Inspector

Skill level: 2

Main tasks

- Examines equipment specifications, and inspects and tests machines, equipment and clothing to monitor and enforce compliance with safety standards and serviceability
- Inspects factories and other work sites to ensure compliance with government and industry standards and regulations
- Investigates workplace accidents, incidents and complaints related to workplace health and safety
- Assists in conducting safety meetings and campaigns, and organising training in general safety principles, in keeping with regulations
- Advises organisations on ways to comply with work health and safety legislative and regulatory requirements
- May issue notices to enforce immediate compliance under work health and safety legislation and if necessary, impose penalties or recommend prosecutions for breaches

Unit Group

3123 Construction Estimators

Prepare and deliver estimates and cost plans for construction projects up to tender settlement stage.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

312331 Construction Estimator

Prepares and delivers estimates and cost plans for construction projects up to tender settlement stage.

Alternative title

- Building Estimator

Skill level: 2

Main tasks

- Reviews project plans and specifications to understand project requirements, then projects the overall costs of materials, labour and planning of construction
- Conducts site visits to gather information and assess project conditions
- Researches and obtains quotes, then negotiates deals with suppliers and subcontractors
- Collaborates with architects, engineers, quantity surveyors and contractors to clarify project details
- Prepares and presents cost plans to clients and stakeholders, and recommends ways to reduce costs
- Assists in the negotiation and settlement of project tenders

Unit Group

3124 Construction Supervisors

Organise the daily operations of construction sites and supervise and perform specialist roles in small civil work teams.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience
- Skill Level 3: AQF Certificate III including at least two years of on-the-job training, AQF Certificate IV, or at least three years of relevant experience

Occupation

312431 Civil Construction Leading Hand

Supervises and performs specialist roles in a small civil work team, including monitoring work programs, ensuring safety and organising plant, labour and material resources on civil construction sites.

Registration or licensing may be required.

Specialisations

- Asphalt Supervisor
- Earthmoving Supervisor

Skill level: 3

Main tasks

- Supervises, coordinates and participates in civil construction work
- Assists Construction Site Supervisors to monitor construction programs, organise resources and resolve issues
- Directs and monitors subcontractors, suppliers and plant hirers, and conducts briefings with work crews to deliver project information and assign tasks
- Provides technical support to work teams on issues such as plant or machine operation, and ensures plant and machinery is maintained and operated in accordance with safety standards
- Maintains a daily record of site activities for reporting to Construction Site Supervisors

Occupation

312432 Construction Site Supervisor

Supervises and organises the daily operations of construction sites, and coordinates the material and human resources required.

Registration or licensing may be required.

Alternative titles

- Building Site Manager
- Building Site Supervisor
- Construction Foreperson

Specialisation

- Demolition Supervisor

Skill level: 2

Main tasks

- Coordinates and schedules construction activities, including the delivery of materials and equipment to site
- Oversees and directs construction workers and subcontractors
- Implements and enforces safety protocols and procedures on construction sites
- Reviews and interprets construction plans and specifications, and inspects construction sites to ensure compliance with building codes and regulations
- Collaborates with Architects, engineers and other professionals involved in the construction process

- Conducts regular site meetings to communicate project progress and address any concerns, and resolves any issues or conflicts that arise

Minor Group

313 Engineering Technicians

Provide technical support to Engineering Professionals in the design, operation, installation and maintenance of engineering equipment and systems.

OSCA skill level

The occupations in this minor group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Unit Group

3131 Civil Engineering Draftspersons and Technicians

Assist in civil engineering research, design, construction, operations and maintenance.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313131 Civil Engineering Draftsperson

Prepares detailed drawings and plans for civil engineering work in support of Civil Engineering Professionals and Engineering Technologists.

Registration or licensing may be required.

Alternative title

- Civil Designer

Specialisations

- Hydraulic Designer (Civil)
- Road Designer
- Structural Draftsperson
- Transport Designer

Skill level: 2

Main tasks

- Prepares detailed drawings and plans for civil engineering projects
- Uses computer design software to convert civil engineering sketches into digital documents
- Creates topographical and relief maps of locations hosting new civil development projects
- Incorporates design changes and updates into existing drawings and plans based on feedback from engineers and architects

Occupation

313132 Civil Engineering Technician

Conducts tests of construction materials, prepares sketches and tabulations, and assists in estimating costs in support of Civil Engineering Professionals and Engineering Technologists. Registration or licensing may be required.

Specialisations

- Civil Laboratory Technician
- Hydraulic Engineering Technician (Civil)

Skill level: 2

Main tasks

- Prepares sketches, drawings and tabulations to assist in the design and planning of civil engineering projects
- Performs laboratory testing and analyses data from construction sites to support Civil Engineering Professionals
- Assists with the inspection, organisation and supervision of civil engineering works to ensure adherence to project timelines and compliance with engineering specifications and safety standards

- Assists with estimating quantities and costs of materials and labour required for civil engineering projects

Unit Group

3132 Electrical Engineering Draftspersons and Technicians

Support and assist Engineering Professionals in the design, testing, analysis and assembly of electrical systems.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313231 Electrical Engineering Draftsperson

Prepares detailed drawings and plans of electrical installations and circuitry in support of Electrical Engineering Professionals and Engineering Technologists.

Registration or licensing may be required.

Specialisations

- Electrical Engineering Design Draftsperson
- Electrical Engineering Detail Draftsperson
- Electrical Engineering Drafting Officer
- Relays Draftsperson
- Substation Design Draftsperson

Skill level: 2

Main tasks

- Prepares detailed drawings, plans and diagrams of electrical installations and circuitry
- Collaborates with Electrical Engineers and Engineering Technologists to ensure the accuracy of electrical drawings and plans
- Uses CAD software to create and modify electrical drawings and plans
- Conducts site visits to gather information and measurements for electrical installations

- Calculates and determines dimensions, materials and specifications for electrical installations and circuitry
- Inspects electrical designs for compliance with design specifications and government regulations

Occupation

313232 Electrical Engineering Technician

Supports and assists Electrical Engineering Professionals and Engineering Technologists in the design, testing, maintenance and modification of electrical systems, prepares charts and tabulations, and assists in cost estimation.

Registration or licensing may be required.

Alternative title

- Electrical Engineering Technical Officer

Specialisations

- Electrical Estimator
- Electrical Instrument Technician

Skill level: 2

Main tasks

- Supports and assists Electrical Engineers and Engineering Technologists in designing and developing electrical systems
- Installs, commissions, tests, monitors, repairs and maintains electrical systems, ensuring systems are in line with relevant safety regulations
- Assists in estimating material costs and quantities for electrical work in industrial or commercial sectors to support engineering teams
- Ensures relevant documentation is up to date, including the writing of service reports for electrical systems
- Collects data, conducts tests and reports on test results utilising various formats, including the use of CAD, graphs, charts, tabulations and calculations for clarity

Unit Group

3133 Maintenance Planners

Develop maintenance planning strategies for, and schedule, coordinate and monitor the maintenance of, plant equipment, infrastructure and machinery.

Facilities Managers are excluded from this unit group. Facilities Managers are included in Occupation 172331 Facilities Manager.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313331 Maintenance Planner

Develops maintenance planning strategies for, and schedules, coordinates and monitors the maintenance of, plant equipment, infrastructure and machinery.

Facilities Managers are excluded from this occupation. Facilities Managers are included in Occupation 172331 Facilities Manager.

Alternative titles

- Maintenance Scheduler
- Maintenance Superintendent
- Shutdown Coordinator
- Shutdown Planner

Specialisations

- Aircraft Maintenance Planner
- Electrical Maintenance Planner
- Mechanical Maintenance Planner
- Rail Maintenance Planner

Skill level: 2

Main tasks

- Prepares preventative maintenance plans and schedules, following the organisation's maintenance goals
- Coordinates planned downtimes to minimise interference with production or service schedules
- Adjusts schedules to include emergency work

- Collaborates with procurement staff to ensure availability of necessary maintenance materials and supplies
- Ensures compliance with existing maintenance procedures and regulations

Unit Group

3134 Marine Transport Masters, Officers and Technicians

Control and manage the operation and maintenance of marine vessels and equipment. Marine Technicians who repair and maintain inboard and outboard marine motors are excluded from this unit group. Marine Technicians are included in Occupation 351435 Marine Technician.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313431 Marine Engineer

Controls and manages the operation, maintenance and repair of a ship's machinery and equipment.

Registration or licensing is required.

Skill level: 2

Main tasks

- Manages the operation and maintenance of a ship's mechanical, electrical, hydraulic, pneumatic, steam-generating and fire control systems
- Conducts regular inspections of machinery and equipment, and diagnoses issues on board the ship
- Plans, coordinates, supervises and carries out repair and maintenance activities
- Ensures compliance with safety and environmental regulations and procedures in the operation of equipment
- Keeps records of equipment performance, fuel consumption and maintenance activities
- Orders and maintains inventory of spare parts and supplies for the ship's machinery

Occupation

313432 Marine Pilot

Oversees the navigation of vessels through water channels and ports.

Registration or licensing is required.

Skill level: 2

Main tasks

- Navigates vessels through harbours, sounds, straits, bays, rivers, lakes or ports
- Advises the best route for safe passage of a vessel
- Provides expert knowledge of a port or waterway, including tides, water depths, local winds, currents and marine traffic
- Communicates with other vessels to prevent collision or advise of adverse conditions
- Monitors weather conditions and water currents using various instruments, such as anemometers, barometers and thermometers
- Ensures compliance with maritime laws, regulations and safety procedures

Occupation

313433 Marine Surveyor

Surveys the machinery, equipment and hulls of vessels to ensure they are constructed, equipped and maintained according to safety standards, rules and regulations laid down by marine authorities.

Registration or licensing is required.

Skill level: 2

Main tasks

- Inspects and examines vessels and equipment to ensure compliance with international and national regulations, and identifies any damage or defects
- Reviews and interprets technical drawings, plans and specifications related to ship construction
- Conducts surveys and inspections during construction, repair or maintenance
- Assesses damage to vessels on behalf of insurance companies for insurance claims
- Tests and evaluates ship systems such as navigation and communication
- Documents survey findings and recommendations, evaluating the vessel's overall condition

- Advises ship owners, operators and builders on compliance issues

Occupation

313434 Master Fisher

Controls a fishing vessel and fishing operations to catch and preserve fish, crustacea and molluscs.

Registration or licensing is required.

Skill level: 2

Main tasks

- Plans and coordinates fishing operations, including determining fishing locations and methods
- Operates fishing equipment and machinery
- Directs and supervises crew members in fishing activities
- Monitors weather conditions and adjusts fishing operations accordingly
- Inspects and maintains fishing gear and equipment
- Ensures compliance with fishing regulations and quota
- Records and reports catch data, including species, quantity and location
- Processes and preserves catch, including cleaning, gutting and freezing
- Manages and maintains the safety and security of a fishing vessel
- Communicates with other fishing vessels and authorities for safety and assistance

Occupation

313435 Ship's Master

Controls and manages the operations of a ship or boat.

Registration or licensing is required.

Marine Pilots are excluded from this occupation. Marine Pilots are included in Occupation 313432 Marine Pilot.

Alternative title

- Ship's Captain

Specialisation

- Tug Master

Skill level: 2

Main tasks

- Manages and controls the movement of a vessel
- Oversees the interpretation of navigational instruments to ensure a vessel's course is maintained
- Adjusts a vessel's course according to weather conditions
- Communicates with port authorities
- Plans and schedules a vessel's route, considering factors such as weather, tides and cargo requirements
- Oversees the loading and unloading of cargo and/or passengers
- Implements emergency procedures in case of accidents, storms or unforeseen events
- Ensures compliance with maritime laws, regulations and safety procedures

Occupation

313436 Ship's Officer

Navigates and controls the safe operation of a ship, and supervises and coordinates the activities of deck crew.

Registration or licensing is required.

Alternative title

- Deck Officer

Specialisations

- Navigating Officer (Ship's)
- Seaman Officer (Navy)

Skill level: 2

Main tasks

- Navigates and controls the safe operation of a ship
- Supervises and coordinates the activities of deck crew
- Assists in the planning of a ship's course and monitors its progress
- Ensures compliance with maritime regulations and safety procedures
- Manages cargo operations and equipment inspections
- Maintains accurate records of a ship's activities, including logbooks and reports
- Communicates with other ships, ports and authorities

Occupation

313499 Marine Transport Masters, Officers and Technicians nec

This occupation group covers Marine Transport Masters, Officers and Technicians not elsewhere classified.

Registration or licensing is required.

Skill level: 2

Occupations in this group include:

- Boating Safety Officer
- Marine Safety Officer
- Vessel Traffic Officer

Unit Group

3135 Mining Supervisors

Oversee the safety of mining operations and supervise Miners.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313531 Mining Supervisor

Oversees the safety of mining operations and supervises Miners.

Registration or licensing is required.

Alternative titles

- Mine Deputy
- Mining Leading Hand

Specialisations

- Explosive Risk Zone Controller

- Mining Production Supervisor
- Open Cut Examiner
- Quarry Supervisor (Open Pit Mining)
- Underground Mining Supervisor

Skill level: 2

Main tasks

- Supervises and coordinates the work of Miners
- Ensures compliance with safety regulations and procedures in mining operations
- Inspects mining areas to identify potential hazards and risks
- Trains and educates miners on safety protocols and procedures
- Monitors and evaluates the performance of Miners in relation to safety practices

Unit Group

3139 Other Engineering Technicians

This unit group covers Engineering Technicians not elsewhere classified. It includes Biomedical Technicians, Electronic Engineering Technicians, Mechanical Engineering Draftspersons, Mechanical Engineering Technicians, Metallurgical and Materials Technicians, Non-destructive Testing Technicians and Other Draftspersons.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

313931 Biomedical Technician

Tests, calibrates, repairs, services and maintains biomedical equipment using a variety of tools and computer applications to keep biomedical machinery operating in optimal conditions.

Registration or licensing may be required.

Skill level: 2

Main tasks

- Conducts scheduled maintenance, quality control checks and electrical safety inspections of biomedical equipment to ensure safe and effective operation
- Installs and calibrates biomedical equipment or components
- Demonstrates and assists with the operation of specialised biomedical equipment
- Cleans, repairs and replaces biomedical equipment when necessary

Occupation

313932 Electronic Engineering Technician

Supports and assists Electronics Engineers and Engineering Technologists in circuitry design, testing, data collection and analysis, and assembles circuitry of electronic systems.

Registration or licensing may be required.

Specialisations

- Broadcast Engineer
- Hearing Aid Technician
- Simulator Technician

Skill level: 2

Main tasks

- Collects data, performs analysis, and maintains and repairs electronic systems
- Conducts tests on components and equipment to ensure functionality and performance in line with industry standards
- Assembles circuitry and electronic components according to engineering specifications
- Assists Electronics Engineers and Engineering Technologists in designing and developing electronic systems
- Installs, configures, calibrates and adjusts electronic instruments and equipment
- Documents test results, data analysis and circuitry assembly procedures

Occupation

313933 Mechanical Engineering Draftsperson

Prepares detailed drawings and plans of mechanical engineering work in support of Mechanical Engineers and Engineering Technologists.

Alternative title

- Mechanical Designer

Specialisations

- Hydraulic Designer (Mechanical)
- Piping Designer
- Tool Designer

Skill level: 2

Main tasks

- Prepares detailed drawings and plans of mechanical engineering work
- Ensures plans and drawings of mechanical engineering work comply with industry standards and regulations
- Creates detailed blueprints that manufacturers can use for mass production of mechanical parts
- Uses CAD software and 3D printing to create models of mechanical parts, and specify product dimensions and quantity of materials needed

Occupation

313934 Mechanical Engineering Technician

Conducts tests of mechanical systems, collects and analyses data, and assembles and installs mechanical assemblies in support of Mechanical Engineers and Engineering Technologists.

Specialisation

- Hydraulic Technician (Mechanical)

Skill level: 2

Main tasks

- Conducts tests of mechanical systems, machines or parts to evaluate performance and identify issues
- Assists Mechanical Engineers and Engineering Technologists in the design and development of mechanical systems
- Collects and analyses data from tests and experiments of machines, components and materials

- Assists in quality control checks and inspections of mechanical installations, components and systems
- Installs parts or machinery to ensure they meet performance targets and work as intended

Occupation

313935 Metallurgical or Materials Technician

Tests techniques, procedures and applications of equipment and materials as part of processing and refining, and/or research into metals, ceramics, polymers and other materials.

Non-destructive Testing (NDT) Technicians are excluded from this occupation. Non-destructive Testing Technicians are included in Occupation 313936 Non-destructive Testing Technician.

Specialisations

- Fire Assayer
- Welding Engineering Technician
- Welding Inspector (Non-NDT)

Skill level: 2

Main tasks

- Obtains, measures and prepares ore samples for testing
- Reviews and approves welding procedures
- Conducts metallurgical laboratory test work to troubleshoot performance and advise on how to improve manufacturing techniques
- Inspects, measures and assesses the quality and strength of welds to ensure they comply with standards and specifications
- Assists metallurgists and other professionals in the use of complex equipment for metal production

Occupation

313936 Non-destructive Testing Technician

Uses non-destructive testing (NDT) techniques to examine and test the functionality and performance of objects, structures or materials without damaging or affecting their functionality.

Registration or licensing may be required.

Alternative title

- NDT Technician

Skill level: 2

Main tasks

- Uses NDT techniques to study the properties of materials and structures
- Uses NDT techniques to test materials at all stages of a manufacturing or construction process
- Tests and identifies product flaws and structural weaknesses using NDT techniques
- Conducts NDT to determine where corrosion may occur and how it will spread
- Calibrates and maintains NDT equipment

Occupation

313937 Other Draftsperson

Prepares detailed drawings, technical plans and illustrations to precise specifications for electronic engineering, mining and shipbuilding projects.

Registration or licensing may be required.

Specialisations

- Electronic Engineering Draftsperson
- Mining Detail Draftsperson
- Shipbuilding Draftsperson

Skill level: 2

Main tasks

- Prepares detailed drawings, plans and illustrations according to client specifications, and industry standards and regulations
- Uses CAD software and other drafting tools to create accurate and precise technical drawings and plans
- Consults with clients and collaborates with engineers and other professionals to ensure that drawings and plans meet project requirements

Occupation

313999 Engineering Technicians nec

This occupation group covers Engineering Technicians not elsewhere classified.

Registration or licensing may be required.

Skill level: 2

Occupations in this group include:

- Automation Technician
- Condition Monitoring Technician
- Hotel Engineer

Minor Group

314 ICT and Telecommunications Technicians and Support Officers

Provide support for the development and maintenance of computer infrastructure, software and telecommunications networks, including the diagnosis and resolution of technical problems.

OSCA skill level

The occupations in this minor group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Unit Group

3141 ICT and Telecommunications Technicians

Monitor and provide technical support functions for ICT and telecommunications networks and infrastructure, including the diagnosis and resolution of technical problems.

ICT Customer Support Officers are excluded from this unit group. ICT Customer Support Officers are included in Occupation 314231 ICT Customer Support Officer.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

314131 ICT Hardware Technician

Supports and maintains ICT systems and peripherals by installing, configuring, testing, troubleshooting and repairing hardware.

Skill level: 2

Main tasks

- Installs and configures ICT hardware, including desktop, laptop and smart devices
- Tests, troubleshoots and repairs desktop, laptop and smart devices
- Diagnoses, troubleshoots and repairs peripheral ICT equipment such as terminals, printers and network hardware
- Installs and maintains networks, servers and network equipment

Occupation

314132 Radiocommunications Technician

Installs, maintains, repairs and diagnoses malfunctions of microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communication systems.

Skill level: 2

Main tasks

- Installs and configures radio and communication systems
- Operates, upgrades and maintains radio communications technical instruments, infrastructure, devices, network systems and field equipment
- Diagnoses and troubleshoots malfunctions in radio and communication systems
- Repairs or replaces faulty components in radio and communication systems
- Tests, analyses performance data, validates and calibrates radio and communication equipment to ensure proper functioning
- Monitors and analyses radio frequency signals to identify and resolve interference issues

Occupation

314133 Telecommunications Field Engineer

Plans, designs, commissions and monitors complex telecommunications networks and associated equipment, provides technical advice and information, and identifies complex problems and initiates action to resolve them.

Skill level: 2

Main tasks

- Plans and designs telecommunications networks and associated equipment
- Commissions and monitors the installation of telecommunications networks and equipment
- Provides technical advice and information to clients and colleagues
- Identifies complex problems in telecommunications networks and equipment
- Initiates action to resolve complex problems in telecommunications networks and equipment
- Tests and evaluates the performance of telecommunications networks and equipment

Occupation

314134 Telecommunications Network Designer

Plans and designs customer access telecommunications networks, and configures enhancements and expansions.

Alternative title

- Telecommunications Network Planner

Skill level: 2

Main tasks

- Conducts surveys and studies to assess the current state of the telecommunications network infrastructure
- Monitors the overall reliability, capacity and performance of the network
- Analyses data and identifies areas for improvement and expansion in the network
- Formulates strategies and plans for the enhancement of customer access telecommunications network infrastructure
- Creates detailed plans, cost estimates and budget proposals for network infrastructure projects
- Collaborates with engineers and technicians to plan, design and implement network infrastructure projects
- Coordinates with local authorities and utility companies to obtain necessary permits and approvals
- Monitors the progress of network infrastructure projects against the specified time and budget

- May troubleshoot equipment or systems issues as appropriate

Occupation

314135 Telecommunications Technical Officer or Technologist

Carries out specialised design and support functions in telecommunications engineering, including optimisation and performance monitoring of telecommunications networks, diagnosis and repair of faults, and the selection and installation of equipment.

Skill level: 2

Main tasks

- Monitors and optimises the performance of telecommunications networks
- Diagnoses and repairs faults in telecommunications networks
- Selects and installs telecommunications equipment
- Conducts tests and measurements on telecommunications equipment and networks

Occupation

314136 Web Administrator

Maintains and improves websites, and provides web technology solutions and services.

Alternative title

- Webmaster

Skill level: 2

Main tasks

- Installs, configures and maintains web servers and related software
- Implements website security measures such as firewalls, antivirus software and secure sockets layer certificates
- Monitors website traffic and performance, and identifies and troubleshoots issues that affect performance
- Ensures backup and disaster recovery plans are in place to protect websites and web applications from data loss and downtime
- Installs and configures website software, such as content management systems and web analytics tools

Occupation

314199 ICT and Telecommunications Technicians nec

This occupation group covers ICT and Telecommunications Technicians not elsewhere classified.

Skill level: 2

Occupations in this group include:

- Applications Packager
- Data Centre Technician
- Information Systems Technician (Defence)
- Provisioning Officer

Unit Group

3142 ICT Customer Support Officers

Provide support, education and guidance in the deployment and maintenance of computer infrastructure and software, and the diagnosis and resolution of technical problems and issues.

OSCA skill level

The occupations in this unit group have a skill level corresponding to the qualifications and experience below.

- Skill Level 2: AQF Associate Degree, Advanced Diploma, Diploma, or at least three years of relevant experience

Occupation

314231 ICT Customer Support Officer

Provides support, education and guidance in the deployment and maintenance of computer infrastructure and software, and the diagnosis and resolution of technical problems and issues.

Alternative titles

- ICT Help Desk Officer
- ICT Service Desk Analyst

Specialisation

- Network Support Technician

Skill level: 2

Main tasks

- Supports customers in resolving technical incidents with computer hardware and software
- Installs and deploys software to meet customer needs
- Diagnoses, troubleshoots and resolves connectivity issues
- Provides basic user training on computer hardware and software