

UNIT GROUP 3113 PRIMARY PRODUCTS INSPECTORS

PRIMARY PRODUCTS INSPECTORS inspect animals, plants and agricultural produce and facilities to ensure compliance with government and industry standards with respect to quality, health and licensing.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

AQF Associate Degree, Advanced Diploma or Diploma (ANZSCO Skill Level 2)

In New Zealand:

NZ Register Diploma (ANZSCO Skill Level 2)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- inspecting animals, plants and agricultural produce to identify product quality issues, and providing advice to producers
- auditing and monitoring quality procedures at farms and food handling and processing facilities to ensure compliance with required standards
- testing samples of produce for quality, size and purity
- ensuring that required standards of hygiene are observed at storage, processing and packing facilities and in transport vehicles
- advising primary producers on economic aspects of disease eradication and informing producers and the general public of the health implications of diseases and impurities
- advising on the identification of pests and diseases and on regulations pertaining to grading, packing and loading of products
- examining imported plants and animals, and products, such as timber, seeds and dried fruits, and making quarantine arrangements
- patrolling and investigating waterways for unlawful fishing activities and the removal of protected marine life
- educating, advising and providing information on a wide range of topics relating to fish and their protection
- may initiate or assist in legal action to enforce regulations

Occupations:

311311 Fisheries Officer

311312 Meat Inspector

311313 Quarantine Officer

311399 Primary Products Inspectors nec

311311 FISHERIES OFFICER

Alternative Title:

Fisheries Inspector

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

Skill Level: 2

MAJOR GROUP 3 *continued*

UNIT GROUP 3113 PRIMARY PRODUCTS INSPECTORS *continued*

311312 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.

Skill Level: 2

311313 QUARANTINE OFFICER

Alternative Titles:

Biosecurity Officer (Ministry of Agriculture and Forestry) (NZ)

Quarantine Inspector

Inspects incoming animals, plants, and animal and plant products to ensure compliance with laws and regulations to prevent the spread of exotic pests and diseases.

Skill Level: 2

311399 PRIMARY PRODUCTS INSPECTORS NEC

This occupation group covers Primary Products Inspectors not elsewhere classified.

Skill Level: 2

Occupations in this group include:

Dairy Quality Assurance Officer

Fruit and Vegetable Inspector

UNIT GROUP 3114 SCIENCE TECHNICIANS

SCIENCE TECHNICIANS perform tests and experiments, and provide technical support functions to assist with research, design, production and teaching in chemistry, earth sciences, life sciences, and physical sciences.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

AQF Associate Degree, Advanced Diploma or Diploma (ANZSCO Skill Level 2)

In New Zealand:

NZ Register Diploma (ANZSCO Skill Level 2)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- preparing materials for experimentation such as freezing and slicing specimens and mixing chemicals
- collecting information and samples
- conducting field and laboratory experiments, tests and analyses
- presenting results in graphic and written form by preparing maps, charts, sketches, diagrams and reports
- performing routine mathematical calculations, and computations of measurements
- controlling the quality and quantity of laboratory supplies by testing samples and monitoring usage
- checking, calibrating and maintaining test equipment
- participating in fabricating, installing and modifying equipment to ensure that critical standards are met
- preparing experiments and demonstrations for science classes

Occupations:

- 311411 Chemistry Technician
- 311412 Earth Science Technician
- 311413 Life Science Technician
- 311414 School Laboratory Technician
- 311499 Science Technicians nec

311411 CHEMISTRY TECHNICIAN

Alternative Title:

Chemistry Technical Officer

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.

Skill Level: 2

Specialisations:

- Chemical Instrumentation Officer
- Chemical Process Analyst
- Chemistry Laboratory Technician
- Dairy Laboratory Technician
- Petroleum Laboratory Technician
- Sugar Laboratory Assistant

MAJOR GROUP 3 *continued*

UNIT GROUP 3114 SCIENCE TECHNICIANS *continued*

311412 EARTH SCIENCE TECHNICIAN

Alternative Title:

Earth Science Technical Officer

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

Skill Level: 2

Specialisations:

Earth Science Laboratory Technician

Geochemical Laboratory Technician

Geological Technical Officer

Geoscience Laboratory Technician

Hydrographer

Hydrographical Technical Officer

Hydrological Technical Officer

Meteorological Observer

Seismology Technical Officer

Soil Science Technical Officer

Water Resources Technical Officer

311413 LIFE SCIENCE TECHNICIAN

Alternative Title:

Life Science Technical Officer

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

Skill Level: 2

Specialisations:

Biological Technical Officer

Botanical Technical Officer

Ecological Technical Officer

Environmental Technical Officer

Fisheries Technical Officer

Forestry Technical Officer

Wood Technologist

Zoology Technical Officer

311414 SCHOOL LABORATORY TECHNICIAN

Prepares experiments and demonstrations, makes up solutions, prepares slides, orders books and equipment, and tidies up laboratories in support of teaching chemistry, earth sciences, life sciences and physical sciences.

Skill Level: 2

UNIT GROUP 3234 TOOLMAKERS AND ENGINEERING PATTERNMAKERS

TOOLMAKERS AND ENGINEERING PATTERNMAKERS make and repair tools, dies, jigs, fixtures and other precision parts and equipment to fine tolerances for machine tools and other production machinery, and construct full-size engineering, visual and experimental models and models for the manufacture of prototype developmental products.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

NZ Register Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- studying drawings and specifications to determine dimensions and tolerances of articles to be manufactured and models to be constructed
- measuring and marking out metal stock and castings using various gauges
- shaping metal and wood stock using machine tools
- checking accuracy of manufactured articles and finished patterns to fine tolerances, using precision measuring instruments
- testing and modifying manufactured articles
- applying protective finishes to patterns and painting pattern sections to indicate method of assembly
- assembling pattern sections and shaping work pieces to specified finish
- pouring and spreading materials into moulds and over models of patterns, and building laminations of fibreglass cloth and plastic resin to fabricate patterns
- repairing broken and damaged patterns and correcting patterns to compensate for defects in casting
- constructing templates for layout and inspection

Occupations:

323411 Engineering Patternmaker

323412 Toolmaker

323411 ENGINEERING PATTERNMAKER

Constructs full-size engineering models usually made out of timber, which are used in manufacturing to produce metal castings, copy models, vacuum form tooling and tooling for the automotive, aircraft or fibreglass industries.

Skill Level: 3