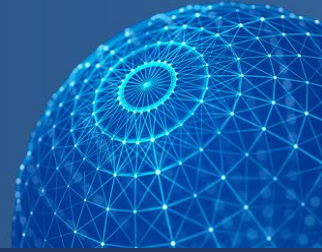




Updating ANZSCO

Reflecting a modern Australian labour market



ANZSCO [Preliminary] Proposed Changes

Version 2.0

Electricity, gas, water
and waste services

ANZSCO Comprehensive Review

Australian Bureau of Statistics

17/6/2024



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Essential Notes

The Australian and New Zealand Statistical Classification of Occupations (ANZSCO) describes all occupations for the Australian and New Zealand labour market.

The ABS has undertaken a comprehensive review of the Australian and New Zealand Standard Classification of Occupations (ANZSCO) to reflect the contemporary labour market and better meet stakeholders' needs. Public consultation rounds were held across 2023, with each round targeting selected occupations grouped by focus area.

Statistics New Zealand (Stats NZ) have elected not to participate in the current review and therefore occupation changes have only been considered in respect of the Australian labour market.

Updates to document

This document has been updated based on stakeholder feedback and further research. Minor updates have been made to a handful of occupations. The format of the document has also been updated to improve usability based on feedback received. A preliminary proposed changes document has been created for each of the 43 focus areas. Focus areas were designed to group occupations for consultation purposes only and will not be present in the classification structure.

The preliminary proposed changes presented do not include the full scope of not elsewhere classified categories (nec). Exclusion statements are incomplete and do not reference specific occupation locations within the classification. Outstanding nec categories, exclusion statements and final tweaks to occupations are currently being finalised in preparation for the release of the draft proposed classification in July on the ABS website. The July release will provide users with an opportunity to provide feedback on the structure of the proposed changes, before finalising the update for release by December 2024. These preliminary proposed changes documents are for information only.

Task lists

ABS recognises the potential of Artificial Intelligence (AI) to enhance our operations and efficiency. To this end, we have employed AI to assist in the creation of initial task lists. However, human experts are responsible for the final content, and AI serves as a tool, not a decision-maker. We value stakeholder input and incorporate it into our editing process placing importance on stakeholder submissions and other relevant research contributions.

Learn more about ANZSCO and the review at [Updating ANZSCO | Australian Bureau of Statistics \(abs.gov.au\)](https://abs.gov.au/anzsco)

Occupations in the Electricity, gas, water and waste services focus area include:

399211 Chemical Plant Operator	5
399212 Gas or Petroleum Operator	6
399213 Power Generation Plant Operator	7
712921 Waste Water or Water Plant Operator	8
899611 Recycling or Rubbish Collector	9



About the focus area

The Electricity, gas, water and waste services focus area broadly covers occupations which require specialised knowledge and skills to:

- control the operation of chemical production equipment, pump gas and oil from wellheads, refine and process petroleum products, and operate boilers and associated plant to generate electrical power
- operate plants to store, distribute and treat water including purifying water for human consumption and removing wastes from sewage
- collect household, commercial and industrial waste for recycling and disposal.

Summary of consultation

Stakeholder feedback largely fell into three main areas: proposing new occupations; providing detailed qualifications and task descriptions; and addressing terminology issues.

Stakeholder feedback highlighted challenges in assessing qualifications for specific occupations, especially when multiple qualifications may be suitable but only partially cover the required tasks or skills. Further detail and improvements in task descriptions at the occupation level were strongly requested.

Users also stressed the importance of using contemporary terminology, especially for terms such as 'garbage' and 'rubbish'. In response to this feedback, changes were made to occupation titles, including the addition or removal of alternative titles and specialisations.

399211 Chemical Plant Operator

Existing	Proposed
<p>399211 Chemical Plant Operator</p> <p>Controls the operation of chemical production plant.</p> <p>Skill Level: 3</p> <p>Specialisations:</p> <ul style="list-style-type: none">• Chemicals Distiller• Chemicals Fermentation Operator• Industrial Gas Production Operator• Paint Maker• Pharmaceutical Plant Operator• Pilot Plant Operator	<p>399211 Chemical Plant Operator</p> <p>Alternative Titles:</p> <ul style="list-style-type: none">• Chemical Plant Technician• Process Operator (Chemical)• Process Technician (Chemical) <p>Controls the operation of chemical production plant.</p> <p>Skill Level: 3</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Monitors and controls the operation of chemical production plant• Adjusts equipment and controls to maintain specified operating conditions and product quality within chemical processing plants• Inspects and tests samples of raw materials and finished products to ensure compliance with quality standards• Performs routine maintenance and troubleshooting of equipment and machinery• Records and maintains production data and reports any deviations or issues <p>Specialisation:</p> <ul style="list-style-type: none">• Paint Maker

399212 Gas or Petroleum Operator

Existing

399212 Gas or Petroleum Operator

Alternative Titles:

- Oil and Gas Well Treatment Operator
- Oil, Gas and Pipe Tester
- Petroleum and Gas Refining and Pumping Operator

Operates equipment to pump oil and gas from wellheads, and refine and process petroleum products.

Skill Level: 3

Specialisations:

- Gas Compressor Turbine Operator
- Petroleum Blending Plant Operator
- Petroleum Terminal Plant Operator
- Refinery Pipeline Operator

Proposed

399212 Gas or Petroleum Production Technician

Alternative Titles:

- Gas or Petroleum Plant Operator
- Process Operator (Gas or Petroleum)
- Process Technician (Gas or Petroleum)

Monitors and controls equipment to pump oil and gas from wellheads, and refine and process petroleum products.

Skill Level: 3

Main Tasks:

- Monitors and controls equipment to pump oil and gas from wellheads
- Operates refining and processing equipment to produce petroleum products
- Monitors and adjusts process variables such as temperature, pressure, and flow rates
- Collects and analyses samples of oil and gas for testing
- Monitors and controls the quality of petroleum products
- Inspects and conducts routine maintenance on equipment to ensure proper functioning
- Records and maintains production and equipment data
- Responds to alarms and emergencies, taking appropriate action

Specialisations:

- Gas Compressor Turbine Operator
- Petroleum Blending Plant Operator
- Petroleum Terminal Plant Operator
- Refinery Pipeline Operator

399213 Power Generation Plant Operator

Existing	Proposed
<p>399213 Power Generation Plant Operator</p> <p>Operates boilers, turbogenerators and associated plant to generate electrical power.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 3</p> <p>Specialisation:</p> <ul style="list-style-type: none">• Wind Turbine Technician	<p>399213 Power Generation Plant Operator</p> <p>Alternative Titles:</p> <ul style="list-style-type: none">• Power Plant Operator• Power Station Operator <p>Operates, controls, maintains and monitors machines and associated plant equipment used to generate electrical power, including power generated from renewable energy such as solar, wind power and hydropower.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 3</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Operates, controls and monitors machines and plant equipment used to generate electrical power, including power generated from renewable energy• Adjusts controls to regulate the flow of fuel, air, and water to maintain specified temperature, pressure and water levels• Starts and stops generators, turbines and auxiliary equipment• Monitors and records readings from meters, gauges and instruments• Inspects and maintains equipment, and identifies and reports any faults or malfunctions• Responds to alarms and emergencies, taking appropriate action to ensure the safe and efficient operation of the plant• Monitors and controls the quality of power generated, ensuring it meets specified standards• Coordinates activities and resolves issues in collaboration with other plant operators and maintenance staff• Keeps records of plant operations, including production levels, maintenance activities and equipment performance <p>Specialisation:</p> <ul style="list-style-type: none">• Wind Turbine Technician

712921 Waste Water or Water Plant Operator

Existing	Proposed
<p>712921 Waste Water or Water Plant Operator</p> <p>Operates plant to store, distribute and treat water including purifying water for human consumption and removing wastes from sewage.</p> <p>Skill Level:</p> <ul style="list-style-type: none">• 4 Australia• 3 New Zealand <p>Specialisation:</p> <ul style="list-style-type: none">• Qualified Reticulation Serviceperson	<p>712921 Waste Water or Water Plant Operator</p> <p>Operates plant to store, distribute and treat water including purifying water for human consumption and removing wastes from sewage.</p> <p>Skill Level:</p> <ul style="list-style-type: none">• 4 Australia• 3 New Zealand <p>Main Tasks:</p> <ul style="list-style-type: none">• Monitors and operates waste water or water treatment processes and equipment• Adjusts chemical dosages and treatment processes to maintain water quality• Monitors and controls water storage and distribution systems• Inspects and maintains waste water or water treatment equipment and machinery• Responds to emergencies at waste water treatment facility, and takes appropriate action• Collects samples of water or waste water for testing• Collects and analyses data on water quality and treatment processes• Prepares reports on plant operations and water quality <p>Specialisations:</p> <ul style="list-style-type: none">• Dam or Reservoir Operator• Water or Waste Water Networks Operator

899611 Recycling or Rubbish Collector

Existing	Proposed
<p>899611 Recycling or Rubbish Collector</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Waste Removalist <p>Collects household, commercial and industrial waste for recycling or disposal.</p> <p>Skill Level: 5</p> <p>Specialisation:</p> <ul style="list-style-type: none">• Garbage Depot Worker	<p>899611 Recycling or Waste Collector</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Waste Removalist <p>Collects household, commercial and industrial waste for recycling or disposal.</p> <p>Compactor Drivers (Waste Collection) are excluded from this occupation.</p> <p>Skill Level: 5</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Collects waste and recycling bins and containers from residential, commercial, and industrial areas• Positions bins for collection and manually empties bins into waste collection trucks• Communicates with supervisors and team members to coordinate collection routes• Assists in transporting waste and recyclable materials to waste transfer stations, landfill sites and materials recovery facilities