



Updating ANZSCO

Reflecting a modern Australian labour market



Water transport

ANZSCO Comprehensive Review

Australian Bureau of Statistics

17/6/2024

ANZSCO [Preliminary] Proposed Changes

Version 1.0



Updating ANZSCO

Reflecting a modern Australian labour market



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 Water transport focus area include:

231211 Master Fisher	5
231212 Ship's Engineer	6
231213 Ship's Master	7
231214 Ship's Officer	8
231215 Marine Surveyor	9
891113 Waterside Worker.....	10



About the focus area

The Water transport focus area covers occupations which require specialised knowledge and skills to:

- control and manage the operations of ships, boats and marine equipment
- survey the machinery, equipment, and hulls of vessels
- transfer cargo between ships and other forms of transport and storage facilities.

Summary of consultation

Stakeholder feedback highlighted the need to update terminology for occupations within the Water transport focus area. In response, several titles and descriptions were revised to align with language used in the current labour market and by regulatory authorities. Skill levels were also updated to better reflect the complexity of roles, and new occupations were created to differentiate between various types of roles, emphasising the required skills, qualifications, and experience.

231211 Master Fisher

Existing	Proposed
<p>231211 Master Fisher</p> <p>Controls a fishing vessel and fishing operations to catch and preserve fish, crustacea and molluscs.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2 Note: some roles within this occupation are at ANZSCO Skill Level 1</p>	<p>231211 Master Fisher</p> <p>Controls a fishing vessel and fishing operations to catch and preserve fish, crustacea and molluscs.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• 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

231212 Ship's Engineer

Existing	Proposed
<p>231212 Ship's Engineer</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Marine Engineer <p>Controls and manages the operation and maintenance of a ship's plant and equipment.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2 Note: some roles within this occupation are at ANZSCO Skill Level 1</p> <p>Specialisations:</p> <ul style="list-style-type: none">• Mechanical Engineering Officer (Navy)• Weapons Electrical Engineering Officer (Navy)	<p>231212 Marine Engineer</p> <p>Controls and manages the operation and maintenance of a ship's plant and equipment.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• 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 and coordinates repair and maintenance activities• Ensures compliance with safety 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

231213 Ship's Master

Existing	Proposed	
<p>231213 Ship's Master</p> <p>Alternative Title:</p> <ul style="list-style-type: none"> • Ship's Captain <p>Controls and manages the operations of a ship or boat.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2 Note: some roles within this occupation are at ANZSCO Skill Level 1</p> <p>Specialisations:</p> <ul style="list-style-type: none"> • Dredge Master • Ship's Pilot • Tug Master 	<p>231216 Marine Pilot</p> <p>Oversees the navigation of vessels through water channels and ports.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none"> • 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 	<p>231217 Ship's Master</p> <p>Alternative Title:</p> <ul style="list-style-type: none"> • Ship's Captain <p>Controls and manages the operations of a ship or boat.</p> <p>Registration or licensing is required.</p> <p>Marine Pilots are excluded from this occupation.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none"> • 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 <p>Specialisation:</p> <ul style="list-style-type: none"> • Tug Master

231214 Ship's Officer

Existing	Proposed
<p>231214 Ship's Officer</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Deck Officer <p>Navigates and controls the safe operation of a ship and supervises and coordinates the activities of deck crew.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2 Note: some roles within this occupation are at ANZSCO Skill Level 1</p> <p>Specialisations:</p> <ul style="list-style-type: none">• Navigating Officer (Ship's)• Seaman Officer (Navy)	<p>231214 Ship's Officer</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Deck Officer <p>Navigates and controls the safe operation of a ship and supervises and coordinates the activities of deck crew.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• 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 <p>Specialisations:</p> <ul style="list-style-type: none">• Navigating Officer (Ship's)• Seaman Officer (Navy)

231215 Marine Surveyor

Existing	Proposed
<p>231215 Marine Surveyor</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Ship's Surveyor <p>Surveys machines and hulls of ships to ensure they are constructed, equipped and maintained according to safety standards, rules and regulations laid down by marine authorities.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2 Note: some roles within this occupation are at ANZSCO Skill Level 1</p>	<p>231215 Marine Surveyor</p> <p>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.</p> <p>Registration or licensing is required.</p> <p>Skill Level: 2</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• 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

891113 Waterside Worker

Existing	Proposed
<p>891113 Waterside Worker</p> <p>Alternative Titles:</p> <ul style="list-style-type: none">• Stevedore• Wharf Labourer <p>Transfers cargo between ships and other forms of transport or storage facilities.</p> <p>Skill Level: 5</p>	<p>891114 Stevedore</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Wharf Labourer <p>Transfers cargo between ships and other forms of transport or storage facilities.</p> <p>Registration or licensing may be required.</p> <p>Skill Level: 4</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Loads and unloads cargo from ships using appropriate techniques and equipment, such as forklifts, gantry cranes, reach stackers, front-end loaders, excavators, mobile wharf cranes or conveyor systems• Secures cargo using ropes, chains and other devices• Transfers cargo between vessels and storage facilities, or other vehicles• Inspects cargo for damage and reports any issues• Communicates with supervisors and other workers to coordinate cargo transfer operations• Organises and prioritises cargo based on shipping schedules and requirements