



Updating ANZSCO

Reflecting a modern Australian labour market



Statistical services

ANZSCO Comprehensive Review

Australian Bureau of Statistics

17/6/2024

ANZSCO [Preliminary] Proposed Changes

Version 2.0



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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)

Occupations in the Statistical services focus area include:

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About the focus area

The Statistical services focus area covers occupations which require specialised knowledge and skills to:

- understand and apply mathematical or statistical principles and techniques to inform and solve problems
- understand and apply analytical or scientific techniques for collecting, organising, and interpreting quantifiable data
- design methods to collect or gather data for statistical purposes
- interview people to collect data for statistical or market research purposes.

Summary of consultation

Stakeholders expressed a clear need for updates to occupation descriptions, emphasising the need for contemporary language that aligns with the current labour market.

224112 Mathematician

Existing	Proposed
<p>224112 Mathematician</p> <p>Develops and applies mathematical principles and techniques to solve problems in all areas of the sciences, engineering, technology, social sciences, business, industry and commerce.</p> <p>Skill Level: 1</p> <p>Specialisation:</p> <ul style="list-style-type: none">• Operations Research Analyst	<p>224112 Mathematician</p> <p>Develops and applies mathematical principles and techniques to solve problems in all areas of the sciences, engineering, technology, social sciences, business, industry, and commerce.</p> <p>Skill Level: 1</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Conducts research to extend mathematical knowledge in areas such as algebra, geometry, probability, and logic• Applies mathematical theories and techniques to the solution of practical problems in business and management• Develops mathematical or statistical models of trends to be used for analysis or for software simulation• Performs computations and applies methods of numerical analysis to data• Addresses the relationships of quantities, magnitudes, and forms using numbers and symbols <p>Specialisation:</p> <ul style="list-style-type: none">• Quantitative Analyst

224114 Data Analyst

Existing	Proposed
<p>224114 Data Analyst</p> <p>Gathers, cleans, and interprets data by processing and applying information technology tools to transform, prepare and communicate results using interactive visualisations such as graphs and charts.</p> <p>Skill Level: 1</p>	<p>224114 Data Analyst</p> <p>Gathers, processes, analyses, and interprets data using data analytical tools. Communicates findings through reports and data visualisations, such as charts and infographics.</p> <p>Skill Level: 1</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Sets up processes to securely collect, store, process and validate data• Evaluates the accuracy and reliability of data• Analyses and interprets data to produce relevant statistics to describe and infer trends and patterns, solve problems and answer data-related queries• Applies data analytics and visualisation techniques to gain business insights• Prepares presentations and/or writes reports to communicate findings and support strategic decision making• Implements and/or follows data management processes to ensure data is used ethically and in compliance with data governance standards and strategies• May write custom scripts and code in programming language to conduct analytical tasks

224115 Data Scientist

Existing	Proposed
<p>224115 Data Scientist</p> <p>Applies analytical techniques and scientific procedures to large datasets by creating advanced algorithms and data models. Builds and deploys machine learning frameworks to obtain information for strategic planning and decision making.</p> <p>Skill Level: 1</p>	<p>224115 Data Scientist</p> <p>Applies analytical techniques and scientific procedures to datasets by creating algorithms and using statistical models. Builds and deploys analytics frameworks, such as machine learning to obtain information for strategic planning and decision making.</p> <p>Skill Level: 1</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Prepares data for analysis, cleans data and recognises and overcomes data anomalies• Applies analytics techniques that incorporate mathematical, statistical, programming and database skills• Builds and deploys machine learning and artificial intelligence frameworks• Applies models to data, evaluates and adjusts models to discover trends and extract insights• Presents data-driven findings and outcomes to key decision makers and stakeholders• Provides strategic input and innovation to organisational data science initiatives

224116 Statistician

Existing

224116 Statistician

Designs and applies statistical principles and techniques for collecting, organising, and interpreting quantifiable data, and uses statistical methodologies to produce statistical reports and analyses for government, commercial and other purposes.

Registration or licensing may be required.

Skill Level: 1

Specialisations:

- Biometrician
- Biostatistician
- Demographer
- Epidemiologist

Proposed

224116 Statistician

Applies statistical principles to design experiments, surveys, and other quantitative studies. Uses statistical techniques to collect, organise, analyse, and interpret data. Uses and develops statistical methods to solve problems in all areas of the sciences, engineering, health, technology, social sciences, business, government, industry and commerce.

Skill Level: 1

Main Tasks:

- Evaluates, processes, analyses and interprets data
- Produces relevant statistics to describe and infer trends and patterns
- Applies models to experimental observations and adjusts and recasts the models
- Evaluates and describes the reliability and utility of source information
- Liaises with management and clients to determine the area to be surveyed or examined
- Plans and organises surveys and other statistical collections and designs questionnaires
- Reports significant differences in relationships among sources of data
- Uses numerical analysis methods to develop algorithms and perform computations

Specialisations:

- Biostatistician
- Demographer
- Epidemiologist
- Statistical Analyst

224311 Economist

Existing

224311 Economist

Alternative Title:

- Economic Analyst

Performs economic research and analysis, develops, and applies theories about production and distribution of goods and services and people's spending and financial behaviour, and provides advice to governments and organisations on economic policy issues.

Skill Level: 1

Specialisations:

- Agricultural Economist
- Econometrician
- Economic Forecaster
- Environmental Economist
- Health Economist
- Labour Market Economist
- Mineral Economist
- Taxation Economist

Proposed

224312 Economist

Alternative Titles:

- Economic Analyst
- Economic Consultant

Researches and analyses the production and distribution of goods and services and people's spending and financial behaviour. Uses this information to predict trends, develop theories and provide advice to governments and organisations on economic policy matters.

Skill Level: 1

Main Tasks:

- Analyses relationships between economic variables and studying the effects of government fiscal and monetary policies, expenditure, taxation and other budgetary policies on the economy and the community
- Researches, analyses and assesses the effects of labour market programs, industry policies and programs on economic growth, welfare, education and training
- Investigates international and national economies and markets, and particular features, such as industries, regions and socioeconomic groups
- Studies workplace issues, such as enterprise bargaining and wage fixation, and the effect of workplace policies on productivity and economic growth
- Analyses trends and advises on economic issues, such as taxation levels, prices, employment and unemployment, imports and exports, and interest and exchange rates
- Forecasts change in the economic environment for short-term budgeting, long-term planning and investment evaluation
- Formulates recommendations, policies and plans for the economy, corporate strategies and investment
- Monitors economic data to assess and advise on the effectiveness and suitability of monetary and fiscal policies

Specialisations:

- Agricultural Economist
- Econometrician

- Economic Forecaster
- Health Economist
- Labour Market Economist
- Land Economist
- Taxation Economist

561511 Survey Interviewer

Existing	Proposed
<p>561511 Survey Interviewer</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Interviewer <p>Interviews people and records their responses to survey and market research questions on a range of topics. May work in a call centre.</p> <p>Skill Level: 5</p> <p>Specialisation:</p> <ul style="list-style-type: none">• Market Research Interviewer	<p>561511 Survey Interviewer</p> <p>Alternative Title:</p> <ul style="list-style-type: none">• Interviewer <p>Interviews people and records their responses to survey and market research questions on a range of topics. May work in a call centre.</p> <p>Skill Level: 5</p> <p>Main Tasks:</p> <ul style="list-style-type: none">• Contacts individuals to gather information in person or by telephone• Administers questionnaires on an area of interest following a set format• Records responses to questions on paper or electronically• Tracks the distribution and collection of questionnaires to addresses, businesses or people• Communicates the importance of survey participation and explains relevant privacy policies <p>Specialisation:</p> <ul style="list-style-type: none">• Market Research Interviewer