

STATISTICIAN (ANZSCO Code: 224113)

The following Information Sheet is for your reference only and should be used as a guide to assist with your Skills Assessment application to VETASSESS. This information is subject to change.

Please note that a Skills Assessment of the qualification involves assessment of both the qualification level and content. Qualifications are assessed according to the guidelines published by the Australian Government Department of Education and Training.

The employment assessment involves determining the skill level and relevance of the tasks undertaken. Integrity checks may be conducted to verify the qualification and employment claims made in an application.

Job description

Statisticians design and apply 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.

Specialisations

- Biometrician
- Demographer
- Epidemiologist

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Requirements for Skills Assessment

This occupation requires a qualification which is assessed as comparable to the educational level an Australian Qualifications Framework (AQF) Bachelor degree or higher*, in a field highly relevant to the nominated occupation.

Applicants must also have at least one year of highly relevant, post-qualification employment, at an appropriate skill level completed in the last five years.

If the qualification(s) are not at the required educational level, and not in a highly relevant field of study, or if the employment has been completed prior to the qualification, then the applicant will be assessed below the required skill level.

*This includes qualifications assessed at AQF Bachelor, Master and Doctoral level.

A positive assessment of both qualifications and employment is required for a positive Skills Assessment Outcome.

Qualification

AQF Bachelor degree or higher*

Highly relevant major fields of study include:

- Statistics
- Business / Financial Statistics
- Biostatistics
- Mathematical Statistics
- Mathematics

Statistics is the study of collecting, describing, processing and analysing numerical data. Qualifications in certain fields^ may be accepted on a case by case basis if the program consists of sufficient subjects in statistics, statistical techniques, linear models, multivariate analysis, experimental design, quantitative research methods, probability estimation, spatial modelling, survey design, time series analysis, distribution theory and applied statistics.

^Those fields of study include: Business Analytics, Actuarial Studies, Data Science, Computer Science, Economics, Bioinformatics and Epidemiology.

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Employment

In Australia, there are currently no legal requirements for licensing or registration for the occupation of Statistician.

Tasks include:

- Liaising with management and clients to determine the subject or area to be surveyed or examined
- Specifying the data to be collected, and the methodology to be used in collection and analysis
- Evaluating and describing the reliability and utility of source information
- Analysing and interpreting data, and producing relevant statistics and visualisations to describe and infer particular trends and patterns

An applicant should be undertaking the majority of these tasks as their core duties in their official job role. It is not mandatory that they perform all of the above tasks or cannot undertake additional duties, as required by the employer.

Additional notes:

Biostatistician

Applies statistical principles to topics in biology and biological experiments. The primary function of the role should be applied statistics, as opposed to scientific research.

Finance / Business Analyst

Creates, interprets, analyses and reports on financial and business statistical data. The primary focus of the role should be on outcomes derived from statistical modelling and forecasting rather than market research and accounting activities.

Employment as an Actuary or Econometrician** cannot be considered as highly relevant to this occupation.

**Econometricians fall under the ANZSCO Unit Group 2243 Economists