VETASSESS

Information sheet

Cartographer

ANZSCO: 232213

Group A

About this document

- 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.
- 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

Applies scientific, mathematical and cartographic design principles to prepare and revise maps, charts and other forms of cartographic output.

Cartographer is a VETASSESS Group A occupation.

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

GROUP A	Criteria for a suitable Skills Assessment		
	Comparable Bachelor degree AQF level	With highly relevant major field of study	Relevant employment duration
1	 +	 +	
Pre-qualification methodology does not apply to Group A occupations			

The information below describes the available pathways for a Skills Assessment under**Group A**. Please note that in order to achieve a suitable Skills Assessment Outcome, a suitable assessment for both qualifications and employment is required.

Pathway 1

This pathway requires a qualification assessed as comparable to the education level of an Australian Qualifications Framework (AQF) Bachelor degree or higher degree and in a field highly relevant to the nominated occupation.

Bachelor degree or higher degree includes AQF Master Degree or AQF Doctoral Degree.

In addition, it is essential for applicants to meet the following employment criteria:

- at least **one** year of post-qualification employment at an appropriate skill level, undertaken in the last five years,
- working 20 hours or more per week, and
- highly relevant to the nominated occupation.

Qualification

Major Fields of Study
Cartography is the study of graphically representing the constructed and natural features of the earth in the form of maps.

Relevant fields of study may include (but are not limited to):
• Geographic information systems (GIS)
• Cartography
• Surveying and mapping

Relevant subjects may include (but are not limited to):

• Geometrics
• Mathematics
• Statistics
• Surveying and Mapping
• Geospatial Mathematics
• Physical Geography
• Scientific Communication
• Computer Programming
• Cadastral Studies (Property Boundaries)
• Physics
• Remote Sensing and Photogrammetry
• Spatial Information Science
• Map and Chart Development and Revision
• Land Information Systems (LIS)
• Cartography
• Graphic Communication Techniques in Map Production
• Hydrography
• Multimedia Cartography and Geovisualization

• Human Geography
• Map Design and Layout
• Air Photo Interpretation
• Land Planning
• Geographic Data Structures

This occupation requires a qualification assessed as comparable to the education level of an Australian Qualifications Framework (AQF) Bachelor Degree or higher degree and in a field highly relevant to the nominated occupation.

Employment Criteria

Highly relevant tasks include, but are not limited to:

- Evaluating, compiling and maintaining spatial information using a range of digital and graphical source materials, including aerial photographs, satellite imagery, survey documents, existing maps and records, historical data, reports and statistics
- Analysing and interpreting data to design maps, graphs, plans, drawings and three-dimensional models using geographic information and related systems
- Advising Architects, Engineering Professionals, environmental and other scientists or other relevant professionals on the technical requirements of mapping

Additional tasks may include:

- Designs and compiles map manuscripts using digital and graphical source material, including aerial photographs, satellite imagery, survey documents, existing maps and records, reports and statistics
- Advises surveyors and other professionals on the data requirements for map production and on the aesthetic, technical and economic considerations of scales, details to be illustrated, place names and reproduction techniques
- Supervises and coordinates the work of cartographic associates in the production and reproduction of maps
- May produce digital elevation models
- May specialise in cadastral (land tenure) or topographical mapping, or maps for specific purposes such as town planning, geology and hydrography
- May produce digital elevation models