



Australian Government

CPPSSI4039 Design and produce maps

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS4039 Design and produce maps.

Application

This unit specifies the skills and knowledge required to apply cartographic principles and conventions to design and produce maps. It includes interpreting specifications and information for map design and layout to produce a map that includes elements, features and spatial reference systems which meet client needs. The unit also includes using geographic information system (GIS) software.

This unit is suitable for entry-level technicians who use a broad range of cognitive, technical and communication skills to select and apply a range of methods, tools, materials and information to complete routine and non-routine activities and provide and transmit solutions to a variety of predictable and sometimes unpredictable problems.

Surveying and spatial information skills are applied in a range of industry contexts, including town planning, civil construction, mining, engineering, health, agriculture and defence.

All work must be carried out to comply with workplace procedures, in accordance with relevant state/territory regulations that govern surveying work, as well as work health and safety (WHS) legislation and regulations that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

1 Plan map design.

1.1 Clarify task requirements, map type and purpose in

- consultation with appropriate persons.
- 1.2 Research and source required datasets and assess for suitability to meet task requirements.
 - 1.3 Plan geoprocessing workflow for the task.
 - 1.4 Design the map layout and identify cartographic principles, conventions and standards to be applied according to the task and organisational guidelines.
 - 1.5 Comply with legislative requirements for accessing and displaying spatial data, including data privacy and copyright.
 - 1.6 Comply with WHS requirements when working on screen-based equipment.
- 2 Process data and prepare map.
- 2.1 Access and incorporate vector and raster spatial data from a range of sources to meet the task requirements.
 - 2.2 Carry out geoprocessing on datasets to produce data for map content.
 - 2.3 Apply cartographic design principles to symbolise data according to task requirements.
 - 2.4 Produce precise and accurate map.
- 3 Finalise process.
- 3.1 Perform self-evaluation of the map and assess compliance of map layout with task and organisational requirements.
 - 3.2 Finalise map and complete hard copy or digital output according to task requirements.
 - 3.3 Complete documentation according to organisational requirements.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS4039 Design and produce maps.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSSI4039 Design and produce maps

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by using geographic information system (GIS) software to design and produce two different types of maps for use in surveying and spatial information services applications.

Knowledge Evidence

To be competent in this unit a candidate must demonstrate knowledge of:

- map types, purpose, characteristics and common scales:
 - cadastral map
 - general reference map
 - infographic map
 - special purpose map
 - thematic map
 - topographic map
- cartographic design principles:
 - classifying spatial data
 - coordinate reference systems and map projections
 - scale, compilation and generalisation
 - symbolisation
 - labelling and text
 - ethics and integrity
- cartographic ethics
- main types of geoprocessing functions in GIS software.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- computer, printer and required mapping software
- organisational policies and procedures relating to:
 - work health and safety (WHS)
 - data privacy, copyright and licensing.

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