

**Draft 0.2**

This is a draft update to CPPSIS4039 Design and produce maps:

<https://training.gov.au/Training/Details/PPSIS4039>

Changed code to CPPSI4039.

Changed PCs to active voice.

PC1.2 incorporates information from feedback in Performance Evidence.

PCs 1.5 and 1.6

Reworded Element 2 from 'Produce map' to: Translate task requirements into map design. This means that element is different from title and also better reflects what the element is about.

PCs 2.1 and 2.2 incorporate information from Performance Evidence

Doing this removes the long list of dot points from Performance Evidence.

Changed 'person' to 'candidate' in PE.

Moved Range of Conditions to KE

## Unit of Competency

### CPPSSI4039 Design and produce maps

#### Modification history

Release	Comments
1	<del>New unit of competency. This version first released with CPP Property Services Training Package Version 3</del>

#### Application

This unit specifies the skills and knowledge required to apply cartographic principles and conventions to design and produce maps. It involves 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. It involves using geographic information system (GIS) software.

This unit is suitable for entry level technicians who will 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, regulations and legislation that apply to the workplace.

Cadastral surveying must be undertaken under the supervision of a registered surveyor. Users must check with the relevant regulatory state/territory authority before delivery.

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

#### Prerequisite Unit

None

#### Unit Sector

Surveying and Spatial Information Services

#### Elements and Performance Criteria

1. Plan map design	<ul style="list-style-type: none"><li>1.1 Clarify task requirements, map type and purpose in consultation with appropriate persons.</li><li>1.2 Research, source and assess required datasets for suitability to meet to task requirements.</li><li>1.3 Plan geoprocessing workflow for the task.</li><li>1.4 Design the map layout and identify cartographic principles, conventions and standards to be applied according to the task and enterprise guidelines.</li><li>1.5 Comply with legal requirements for accessing and displaying spatial data, including data privacy and information copyright.</li><li>1.6 Comply with work health and safety requirements when working on screen-based equipment.</li></ul>
--------------------	--

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 enterprise requirements. 3.2 Finalise map and complete hard copy or digital output according to task requirements. 3.2 Complete documentation according to enterprise 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

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

## Assessment Requirements for CPPSSI4039 Design and produce maps

### Modification history

Release	Comments
1	<del>New unit of competency. This version first released with CPP Property Services Training Package Version 3.</del>

### Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by using 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
- enterprise policies and procedures relating to:
  - work health and safety
  - data privacy, information copyright and licensing.

### Links

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>