



Australian Government

CPPSIS3011 Produce basic maps

Release: 1

CPPSIS3011 Produce basic maps

Modification History

Release 1.

Replaces superseded equivalent CPPSIS3011A Apply map presentation principles.

This version first released with CPP Property Services Training Package Version 3.

Application

This unit of competency specifies the outcomes required to use mapping software, such as geographic information system (GIS) functionality, to produce a basic map. The unit covers activities to prepare and process basic spatial data and produce a basic map, which includes simple marginal information and content, to meet task specifications.

The unit supports those who work under supervision in a surveying and spatial information services team, in areas such as surveying, cartography, mapping, town planning and GIS.

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

Pre-requisite Unit

Nil

Unit Sector

Surveying and spatial information services

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.
1. Prepare to create basic map.	1.1. <i>Task requirements</i> are clarified with <i>appropriate persons</i> . 1.2. Equipment and software are selected according to task and organisational requirements.
2. Compile map content.	2.1. Map marginal information and content are prepared according to task specifications.

- 2.2. Spatial data is processed to prepare map content according to task specifications.
3. Finalise basic map production.
 - 3.1. Map is produced in required format and content according to task requirements.
 - 3.2. Map content and format are checked against task requirements in consultation with appropriate persons.
 - 3.3. Map is finalised and documentation completed according to organisational requirements.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

Performance feature

Skill

- Numeracy skills to:
- apply datums and projections to map
 - read data attributes and numerical data.
- Oral communication skills to:
- ask questions to clarify task requirements.
- Reading skills to:
- interpret instructions in standard operating procedures
 - interpret spatial data, software menus and messages.
- Writing skills to:
- label marginal information and map content.
- Technology skills to:
- use mapping functions of basic software to format maps that meet task specifications.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

- | | |
|---|---|
| <i>Task requirements must include:</i> | <ul style="list-style-type: none">• coordinate system• format of map• map content• marginal information• spatial data to be used• type of map. |
| <i>Appropriate persons must include at least one of the following:</i> | <ul style="list-style-type: none">• experienced colleague• supervisor or line manager. |

Unit Mapping Information

CPPSIS3011A Apply map presentation principles

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSIS3011 Produce basic maps

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Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also use suitable software to produce two basic maps containing the following:

- two man-made features and two natural features and their symbology depicting data by points, lines and polygons
- data that has been geoprocessed from retrieved spatial data
- simple marginal information, including:
 - data sources
 - georeferencing system
 - legend
 - north point
 - scale.

While producing the above basic maps, the person must:

- communicate clearly when clarifying work tasks
- comply with organisational requirements regarding health and safety and completing records and documentation
- use a computer, printer and required ancillary hardware
- use basic software mapping functions to:
 - apply scale
 - change data appearance
 - change symbology
 - import simple point, line and areal data
 - label features
 - pan zoom
 - perform simple thematic mapping
 - symbolise features by attributes.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- functions of mapping software suitable for making basic maps
- key geographic feature types and how they are portrayed in mapping software, including using points, lines and polygons
- key features of coordinate systems, datums and projections
- common types of maps used for surveying and spatial information services
- organisational policies and guidelines relating to basic map production
- typical scales used on different types of maps
- typical spatial referencing systems used on different types of maps
- typical symbology used on different types of maps.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - computers and software relevant to basic map production
- specifications:
 - work task specifications
 - organisational policies, procedures and documentation relating to work health and safety when using screen-based equipment
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working under supervision.

Timeframe:

- as specified by task and organisational requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

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