



Australian Government

Assessment Requirements for CPPSIS5064 Coordinate GIS data manipulation and analysis

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5064A Manipulate and analyse GIS data.

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

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 coordinate geographic information system (GIS) data manipulation and analysis to meet client needs for two different projects.

While coordinating the above GIS data manipulation and analysis projects, the person must:

- negotiate with clients regarding data format requirements
- conduct research to source geographic information
- develop parameters, equations and assumptions to meet task requirements
- develop procedures and establish models for data analysis that meet established client specifications for data format
- analyse data sources to verify data integrity to ensure:
 - accuracy
 - completeness
 - confidence limits
 - currency
 - quality
 - resolution
 - scale
- build up elements of a database
- capture geographic information
- manipulate and analyse datasets using general query and programming languages, scripts and command lines
- use GIS software to manipulate and analyse data for display on a map
- comply with organisational and legal requirements for:
 - client consultation
 - data ownership, including accessing and using spatial data, including copyright, intellectual property, data privacy and trade practices
- comply with organisational requirements for recording data and completing documentation, and using screen-based equipment.

Knowledge Evidence

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

- data reduction and manipulation techniques
- database structures and spatial features of databases
- line instructions and programming languages to capture geographic information
- methods for creating layers on maps
- querying and browsing techniques for obtaining information from databases
- types of spatial data formats
- organisational and legal requirements for accessing and using spatial data, including copyright, intellectual property, and trade practices
- organisational policies and procedures relating to:
 - accessing, recording and storing spatial data
 - communicating with clients and end users
 - completing records and documentation
 - custodianship of data
 - using computer systems and software to manipulate GIS data.

Assessment Conditions

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

- equipment:
 - computer and software appropriate for manipulating GIS data
- specifications:
 - organisational policies, procedures and documentation relating to data privacy and information copyright
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working in a team.
- relationships with clients:
 - client consultation required.

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.

Links

Companion Volume implementation guides are found in VETNet -

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