



Australian Government

Assessment Requirements for CPPSIS5038 Develop spatial databases

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5038A Develop a complex spatial and aspatial database.

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 develop two different spatial databases to meet specifications.

While developing the above spatial databases, the person must:

- analyse written spatial data storage specifications to identify storage requirements and constraints
- arrange data indexes that allow for several notations for cross-referencing data
- access spatial data and translate it into required format
- arrange to create, access and use an indexing system for spatial data
- assess feasibility of data storage options based on available budget, resources and priorities
- comply with administrative and legal requirements for storing, using and retrieving spatial data
- comply with organisational requirements for:
 - recording data
 - completing documentation
 - health and safety when using screen-based equipment
- develop risk and contingency management plans to ensure security of stored spatial data
- negotiate with clients, data suppliers and data network storage providers to achieve required outcomes
- plan system design, including assessing available formats and storage requirements
- read and write technical reports detailing storage solutions for spatial data
- research and evaluate sources of spatial data
- supervise and coordinate staff to assist with research activities
- use project management techniques to coordinate database requirements
- use software, hardware and networking applications to access, store and retrieve data.

Knowledge Evidence

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

- administrative and legal requirements for storing, using and retrieving digital and hard copy spatial data, including copyright
- spatial data storage and retrieval methods
- key features of current indexing systems
- data retrieval methods, including querying and browsing techniques for obtaining information from databases
- industry metadata standards relating to:
 - availability
 - conditions of use
 - coordinate system
 - currency
 - custodian
 - data accuracy
 - data description
 - date of acquisition
 - licence
 - quality
 - source
 - spatial data acquisition methodologies
 - version control
- network and security guidelines relating to spatial data
- organisational policies and procedures relating to:
 - accessing, recording, storing and retrieving spatial data
 - communicating with clients, end users and network storage providers
 - completing records and documentation
 - working within budget and resource constraints and priorities
- spatial data formats, classification and indexing systems
- spatial data input technologies, including digitising, scanning, remote sensing and satellite imagery
- spatial data maintenance and management systems
- key features of spatial reference systems
- types of storage media for a range of spatial data.

Assessment Conditions

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

- equipment:
 - computer with software appropriate for spatial data storage and retrieval
 - ancillary hardware
- specifications:
 - organisational policies and procedures relating to:

- work health and safety
- data privacy and information copyright
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working in a team.

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>