



**Australian Government**

# **Assessment Requirements for CPPSIS5037 Maintain spatial data systems**

**Release: 1**

# Assessment Requirements for CPPSIS5037 Maintain spatial data systems

## Modification History

Release 1.

Replaces superseded equivalent CPPSIS5037A Maintain complex spatial data systems.

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 implement the full cycle of maintenance of spatial data systems for two different projects, including the full cycle of updating, backup, recovery and archiving.

While maintaining the above spatial data systems, the person must:

- allocate tasks within the work team, and provide supervision to ensure work is completed within required timeframes
- apply industry-accepted standards for:
  - accuracy, precision and error tolerances to ensure data systems are accurately maintained
  - creating and recording metadata
- comply with administrative and legal requirements for storing and retrieving spatial data, including data privacy and information copyright
- comply with organisational requirements and manufacturer specifications when using the equipment specified in the assessment conditions
- comply with organisational requirements for recording data and completing documentation, and working safely when using screen-based equipment
- evaluate and decide appropriate data maintenance techniques
- use spatial data input technologies, including:
  - digitising
  - scanning
  - remote sensing
  - satellite imagery
- use spatial data output and distribution technologies, including:
  - scripting
  - query language
  - macro development
  - graphic interfaces
  - networks
  - remote access.

## Knowledge Evidence

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

- administrative and legal requirements for accessing, storing, retrieving and archiving digital and hard copy spatial data, including data privacy and information copyright
- advanced spatial data reduction processes
- key features of coordinate reference systems
- industry-accepted standards relating to accuracy and precision, error tolerances and metadata
- types of map projections
- methods for validating test results to identify systematic distortions
- organisational policy and procedures relating to work tasks, including:
  - health and safety when using the equipment specified in the assessment conditions
  - maintaining the quality and integrity of spatial data
  - reporting, including completing records and documentation
  - storing and retrieving data
- software that can be used to manage spatial data, create metadata, and apply spatial data input, output and distribution technologies
- types of spatial data formats
- techniques for using spatial data input technologies, as specified in the performance evidence
- techniques for using spatial data output and distribution technologies, as specified in the performance evidence
- 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 management and retrieval
  - hard copy and digital data storage media
  - printer
- 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>