

Draft 0.2

This is a draft update to CPPSIS4034 Maintain spatial data:

<https://training.gov.au/Training/Details/PPSSI4034>.

Code changed to CPPSSI4034.

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE

Reference to: 'two different tasks' in first sentence of PE may be problematic at audit as no specific details provided

Range of Conditions added to Knowledge Evidence.

Mapping info added.

Unit of Competency

CPPSI4034 Maintain spatial data

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSI4034A Maintain spatial data. This version first released with CPP Property Services Training Package Version 3.
	Replaces superseded equivalent CPPSI4034 Maintain spatial data

Application

This unit specifies the skills and knowledge required to implement a full cycle of spatial data maintenance, including updating, backup, recovery and archiving. It involves editing, updating and integrating existing and new spatial data, and problem solving to test and validate data currency and retrieval and backup systems. includes the use of computers and software to display and manipulate data and create metadata

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.

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

Prerequisite Unit

None

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

1. Confirm reliability of spatial data.	<ul style="list-style-type: none">1.1 Clarify task requirements with appropriate persons.1.2 Comply with administrative and legal requirements for storing and retrieving spatial data, including data privacy and information copyright.1.3 Apply safe work procedures for working with screenbased equipment1.4 Access and check spatial data to confirm data version, currency and relevance.1.5 Check and convert spatial data to confirm it is compatible and in acceptable format for task requirements.
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	1.6 Use entities and attributes to display spatial information to check and confirm reliability while maintaining integrity and consistency of data.
2. Edit and update spatial data.	2.1 Edit, prepare and integrate existing and new data according to task requirements. 2.2 Test and validate spatial dataset to confirm integrity and quality. 2.3 Update and replace documentation according to enterprise requirements. 2.4 Update documentation and metadata according to enterprise requirements.
3. Carry out data backup and recovery.	3.1 Implement data backup schedule and confirm data can be retrieved in contingency situations according to enterprise requirements. 3.2 Restore from system backup to resolve problems in consultation with appropriate persons.
4. Archive data.	4.1 Test and check spatial dataset to be archived for completeness and manipulate where necessary. 4.2 Store archived spatial data in a secure location, and record details 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 CPPSIS4034 Maintain spatial data

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 CPPSSI4034 Maintain spatial data

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by implementing the full cycle of spatial data maintenance for two different projects. For each project, the candidate must:

- update, backup, recover and archive data
- display vector and raster data datasets
- edit and manipulate a range of spatial data types, including points, lines, polygons, and text.

Knowledge Evidence

To be competent in this unit a candidate must demonstrate knowledge of:

- administrative and legal requirements for accessing, storing, retrieving and archiving spatial data, including data privacy and information copyright
- methods for validating test results to identify systematic distortions
- techniques for browsing and querying spatial data
- graphical and technical information from maps and imagery.
- key features of spatial reference systems
- types of spatial data formats
- types of storage media for a range of spatial data
- metadata fields relating to accuracy, currency, extent, availability.

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:

- data storage media
- computer with software appropriate for spatial data management and retrieval
- printer
- enterprise policies and procedures relating to:
 - work health and safety
 - data privacy and information copyright.

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