



Australian Government

CPPSSI4034 Maintain spatial data

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS4034 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 includes editing and integrating existing and new spatial data, and problem-solving to test and validate data currency and retrieval and backup systems. The unit also includes the use of computers and software to display and manipulate data and create metadata.

This unit is suitable for entry-level technicians who 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 (WHS) legislation and regulations that apply to the workplace.

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

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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|---|------------------------|-----|---|
| 1 | Confirm reliability of | 1.1 | Clarify task requirements with appropriate persons. |
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| spatial data. | 1.2 | Comply with administrative and legislative requirements for storing and retrieving spatial data, including data privacy and copyright. |
| | 1.3 | Apply safe work procedures for working with screen-based equipment. |
| | 1.4 | 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. |
| | 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 organisational requirements. |
| | 2.4 | Update documentation and metadata according to organisational 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 organisational 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 organisational 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

Companion volumes to this training package are available at the VETNet website -
<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 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 legislative requirements for accessing, storing, retrieving and archiving spatial data, including data privacy and 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 and 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
- organisational policies and procedures relating to:
 - work health and safety (WHS)
 - data privacy and copyright.

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