



Australian Government

CPPSSI5040 Source, collate and interpret 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 CPPSIS5040 Interpret and collate spatial data.

Application

This unit specifies the skills and knowledge required to source, interpret and collate spatial data to meet task requirements. The unit includes accessing, querying and interpreting spatial data from various sources to test and determine its relevance and compatibility with task requirements. It also includes the use of geographic information system (GIS) software.

This unit is suitable for skilled surveying technicians and skilled spatial information system (SIS) technicians who use a broad range of cognitive, technical and communication skills to select and apply methods and technologies to analyse information and provide solutions to sometimes complex surveying/spatial information 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 Source spatial data. | 1.1 Clarify spatial data requirements for task in consultation |
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- with appropriate persons.
- 1.2 Comply with legislative and organisational requirements for accessing and manipulating spatial data according to data privacy, copyright and licensing.
 - 1.3 Retrieve spatial datasets from data storage and other relevant sources according to task and organisational requirements.
- 2 Collate spatial data.
- 2.1 Select appropriate format and data storage option for spatial data according to task and organisational requirements.
 - 2.2 Translate data into appropriate format for storage and collate to meet project requirements.
- 3 Interpret spatial data.
- 3.1 Verify data for integrity and relevance according to task requirements.
 - 3.2 Query data using software application according to task requirements.
 - 3.3 Seek and analyse feedback to identify improvements and adjust to meet task requirements.
 - 3.4 Identify and resolve irregularities in the data using industry-accepted methods.
- 4 Document and present results.
- 4.1 Record the results of the querying process to meet task requirements.
 - 4.2 Present the spatial data in a map or summary table.
 - 4.3 Store spatial data and complete documentation 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 CPPSIS5040 Interpret and collate 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 CPPSSI5040 Source, collate and interpret spatial data

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by interpreting and collating spatial data that meets task requirements for two different projects. For each project the candidate must:

- source data from different suppliers
- focus on a different theme, such as social, economic, health or environmental
- document and present the summarised data to meet the task requirements.

Knowledge Evidence

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

- industry-accepted sources of spatial data
- key features of coordinate reference systems
- industry-accepted standards and methods for assessing and verifying spatial datasets and dataset sources
- legislative requirements for accessing, storing and archiving digital spatial data, including data privacy, copyright and licensing
- purpose and use of metadata
- types of spatial data storage technologies
- techniques for querying databases.

Assessment Conditions

Assessors must satisfy 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:

- computer with appropriate software
- organisational policies and procedures relating to data privacy, copyright and licensing.

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