



**Australian Government**

# **CPPSIS5040 Interpret and collate spatial data**

**Release: 1**

# CPPSIS5040 Interpret and collate spatial data

## Modification History

Release 1.

Replaces superseded equivalent CPPSIS5040A Collate and interpret spatial data.

This version first released with CPP Property Services Training Package Version 3.

## Application

This unit of competency specifies the outcomes required to interpret and collate spatial data to meet project deliverables and client requirements. The unit covers accessing, querying and interpreting spatial data from various sources to test and determine its relevance and compatibility for meeting project requirements. It also covers collating spatial data and facilitating links with other functional areas within the organisation as part of the broader knowledge management system. The unit requires the ability to use various technologies and software applications, including geographic information system (GIS) software to access, manipulate, archive, retrieve and validate spatial data. It also requires the ability to complete records and documentation.

The unit supports those who work in a lead role in a surveying or spatial information services team in areas such as surveying, cartography, town planning, mapping and GIS.

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

## Pre-requisite Unit

Nil

## Unit Sector

Surveying and spatial information services

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.

- |                         |   |
|-------------------------|---|
| 1. Access spatial data. | 1.1. Project spatial data requirements and constraints, and client requirements, are identified and documented in consultation with <b><i>appropriate persons</i></b> . |
|                         | 1.2. Spatial datasets are retrieved from data storage and other relevant sources and new data is captured according to  |

- project and organisational requirements.
- 1.3. Data is manipulated into appropriate format to meet project requirements.
2. Query and interpret spatial data.
    - 2.1. Data is queried and interpreted using appropriate equipment and software application according to project requirements.
    - 2.2. Data is verified for integrity and relevance using industry-accepted statistical tests and methods according to project requirements.
    - 2.3. Irregularities are identified and resolved, and results recorded and documented according to organisational requirements.
  3. Collate spatial data.
    - 3.1. Spatial data is collated according to organisational requirements.
    - 3.2. Most appropriate format and database for spatial data are selected according to organisational requirements.
  4. Validate spatial data.
    - 4.1. Tools for testing validity of information and data are identified, accessed and used according to organisational requirements.
    - 4.2. Problems with collated data are identified and resolved to ensure quality and usability according to organisational requirements.
    - 4.3. Spatial data is archived and records and documentation are completed according to organisational requirements.

## Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

<b>Skill</b>	<b>Performance feature</b>
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- Learning skills to:
- source spatial data appropriate to client needs.
- Numeracy skills to:
- interpret and analyse statistics.
- Oral communication skills to:
- ask questions to clarify client data requirements.
- Reading skills to:
- analyse detailed technical descriptions of spatial data and its qualifiers.
- Technology skills to:
- use a computer and software to manipulate spatial data.
- Problem-solving skills to:
- apply contingency measures to resolve identified errors
  - verify authenticity of data against specifications.

## Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

- Appropriate persons*** must include at least two of the following:
- client
  - end user
  - manager
  - qualified surveyor
  - spatial data provider
  - supplier.

## Unit Mapping Information

CPPSIS5040A Collate and interpret spatial data

## **Links**

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>