

### Draft 0.1

This is a draft update to CPPSIS5035 Obtain and validate spatial data:

<https://training.gov.au/Training/Details/CPPSIS5035>

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

RoC items (see below) moved to KE. TAG please review if this is okay.

***Appropriate persons*** must include at least two of the following:

- client
- end user
- financial or legal specialist
- manager
- qualified surveyor
- spatial data provider
- supplier
- town planner.

***Metadata*** must include at least three of the following:

- availability
- conditions of use
- coordinate system
- currency
- custodian
- data accuracy
- data description
- date of acquisition
- licence
- quality
- source
- spatial data acquisition methodologies
- version control.

## Unit of Competency

### CPPSUR5035 Obtain and validate spatial data

#### Modification history

Release	Comments
1	<del>Replaces superseded equivalent CPPSIS5035A Obtain and validate spatial data.</del> <del>This version first released with CPP Property Services Training Package Version 3.</del>

#### Application

This unit specifies the skills and knowledge required to obtain and validate spatial data to meet client specifications. The unit covers analysing project requirements and agreements and determining appropriate data acquisition options. It also covers applying industry-accepted validation methodologies to assess the validity and integrity of data and resolve problems. The unit requires the ability to use technology to access, manipulate, archive and retrieve a range of spatial data. It also requires the ability to record metadata and complete documentation and written communications.

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 or geographic information systems (GIS).

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

#### Prerequisite Unit

None

#### Unit Sector

Surveying and spatial information services

#### Elements and Performance Criteria

1. Prepare for spatial data acquisition.	1.1 Determine and analyse project specifications, client instructions and agreements according to organisational requirements. 1.2 Confirm data requirements with appropriate persons and allocate resources to project tasks according to organisational requirements. 1.3 Follow protocols for communicating with spatial data providers according to organisational requirements. 1.4 Assess viability of provider's service agreement based on advice from appropriate persons. 1.5 Determine data acquisition options according to project specifications and organisational requirements. 1.6 Receive and process data according to project specifications and organisational requirements.
2. Validate spatial data.	2.1 Assess data for validity and integrity according to project specifications 2.2 Identified and resolved omissions and gaps in spatial data in consultation with appropriate persons. 2.3 Record metadata according to organisational requirements.

	2.4 Complete and store documentation according to organisational requirements.
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### Foundation Skills

Candidates require:

- planning and organising skills to delegate project tasks to staff.
- numeracy skills to interpret and analyse statistics.
- oral communication skills to negotiate data requirements with clients and service providers.
- reading skills to interpret contractual obligations detailed in legal documents, such as contracts, agreements, memorandums of understanding and licences, and to analyse detailed technical descriptions of spatial data and their qualifiers.
- writing skills to communicate with clients and data providers using email and to record measurements with accuracy and precision.
- technology skills to use a computer and software to access, manipulate, archive and retrieve a range of spatial data.
- problem-solving skills to apply contingency measures to resolve identified errors and to verify authenticity of data against specifications.

### Unit Mapping Information

Supersedes and is equivalent to CPPSIS5035 Obtain and validate spatial data

### Links

Companion Volume Implementation Guide:

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

## Assessment Requirements for CPPSUR5035 Obtain and validate spatial data

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### Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- obtaining and validating spatial data that meets client specifications for two different projects.

While obtaining and validating the above spatial data, the candidate must:

- apply contingency measures when solving problems relating to data
- comply with organisational requirements and manufacturer specifications when using the equipment specified in the assessment conditions
- comply with organisational requirements for:
  - allocating resources, delegating duties and working within budgetary constraints
  - communicating with clients and spatial data providers
  - recording metadata and completing documentation
  - working safely when using screen-based equipment
- comply with legal requirements relating to client service provision, and accessing and managing spatial data
- exercise precision when archiving, retrieving, managing and manipulating spatial data
- use industry-accepted methods for assessing the validity and integrity of spatial data and resolving errors.

### Knowledge Evidence

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

- appropriate persons for confirming data requirements
  - client
  - end user
  - financial or legal specialist
  - manager
  - qualified surveyor
  - spatial data provider
  - supplier
  - town planner
- metadata
  - availability
  - conditions of use
  - coordinate system
  - currency
  - custodian
  - data accuracy
  - data description
  - date of acquisition

- licence
- quality
- source
- spatial data acquisition methodologies
- version control
- industry-accepted standards relating to obtaining and validating spatial data
- legal requirements for accessing, storing, retrieving and archiving digital and hard copy spatial data, including data privacy and information copyright
- methods for assessing and validating spatial datasets and dataset sources
- organisational requirements relating to:
  - work health and safety
  - client services
  - human resource management
  - completing documentation
- spatial data capture methodologies
- spatial data formats and structures
- key features of spatial reference systems.

### Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- an equipped work station, including a printer and a computer with software appropriate for spatial data management and electronic communication
- organisational specifications for policies and procedures relating to:
  - work health and safety
  - data privacy and information copyright
  - project budget and resources
- a team to work with.

Work must be completed within the time frames specified by client and project requirements.

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