

Draft 0.1

This is a draft update to CPPSIS4024 Source and assess spatial data:

<https://training.gov.au/Training/Details/CPPSIS4024>.

Code changed to CPPSUR4024.

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

Range of Conditions added to Knowledge Evidence.

I've added mapping info.

TAG will need to reassess this as unit is redeveloped.

Unit of Competency

CPPSUR4024 Source and assess spatial data

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS4024A Collect and set out spatial data. This version first released with CPP Property Services Training Package Version 3.
	Replaces superseded equivalent CPPSIS4024

Application

This unit specifies the skills and knowledge required to source spatial data from a range of media and datasets, and assess its availability and suitability for use in meeting client requirements. The unit covers researching and assessing data suppliers and information, such as metadata and attributes, to determine the most suitable sources of available data to meet job specifications. The unit also covers collecting and setting out data using a computer and software suitable for manipulating and presenting spatial data. The unit requires the ability to measure and reduce data and write technical reports.

The unit supports those who work in support positions for surveying and mapping, town planning, cartography and geographic information systems (GIS).

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. Source spatial data.	<ul style="list-style-type: none">1.1 Identify job specifications for required spatial data in consultation with appropriate persons.1.2 Undertake search of a range of media to identify sources of potential spatial data.1.3 Obtain and assess metadata, datasets and attributes to determine most appropriate data source according to job specifications.1.4 List potential sources of spatial data are listed according to job specifications and organisational requirements.
2. Assess potential spatial data.	<ul style="list-style-type: none">2.1 Assess potential spatial data and datasets for suitability against job specifications.2.2 Verify availability of suitable spatial data with potential suppliers, and constraints are identified according to organisational requirements.2.3 Determine spatial data indexing, backup and archiving requirements to ensure currency.
3. Prepare data suitability report.	<ul style="list-style-type: none">3.1 Collect and set out spatial data according to job specifications and organisational requirements.3.2 Comply with and record administrative and industry requirements

	for data collection. 3.3 Complete documentation according to organisational requirements.
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Foundation Skills

Candidates require:

- initiative and enterprise skills to:
 - identify situations requiring the need to obtain further sample data to ensure data suitability
- numeracy skills to:
 - interpret and compare data version information
 - measure spatial data components
- oral communication skills to:
 - ask questions to clarify data requirements
- reading skills to:
 - interpret graphical and technical information from maps and photographs
- writing skills to:
 - prepare clear and accurate technical reports that can be interpreted by a third party
- technology skills to:
 - use a computer and software to set out and format spatial data
- problem-solving skills to:
 - implement contingency measures where there are constraints on the use of spatial data.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS4024 Source and assess spatial data

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSUR4024 Source and assess spatial data

Modification history

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by sourcing and assessing the availability and suitability of spatial data for two different projects in consultation with colleagues.

While sourcing and assessing the above spatial data, the candidate must:

- clarify job specifications, including extent, content, intended use, accuracy, precision and format of spatial data
- complete required documentation, including written assessments as specified in the range of conditions
- communicate clearly with others to clarify and discuss work tasks
- comply with legal and organisational requirements relating to:
 - completing records and documentation
 - copyright and ownership of spatial data
 - using and storing equipment
 - working safely
- perform spatial data measurements, reduction and manipulation with accuracy
- set out spatial data and related attributes, including:
 - colour
 - layer
 - level
 - line type
 - line width
 - text
- verify availability of suitable data with suppliers, taking into account copyright and ownership constraints.

Knowledge Evidence

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

- accuracy and precision requirements relating to measuring and recording spatial data
- key features of spatial reference systems
- methods for assessing the availability and suitability of spatial data
- potential sources of spatial data and datasets
- range of basic spatial data capture and data set-out methodologies
- requirements to comply with data license agreements and copyright
- spatial data formats, handling and structure
- spatial data recording and reduction techniques
- appropriate persons:
 - client

- colleague
- qualified surveyor
- supervisor or line manager
- spatial data provider
- 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
- documentation:
 - written assessment of data availability, including cost, licensing conditions, and constraints on use
 - written assessment of suitability of available data in meeting requirements for accuracy, completeness, coverage, density, logical consistency and specifications.

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:

- equipment:
 - computer with software appropriate for spatial data manipulation and set-out
 - printer
- specifications:
 - job specifications
 - organisational policies and procedures relating to:
 - work health and safety
 - data privacy and information copyright
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working in a team.

Links

Companion Volume Implementation Guide:

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