

Draft 0.1

This is a draft update to CPPSIS5052 Integrate surveying datasets:

<https://training.gov.au/Training/Details/CPPSIS5052>.

Code changed to CPPSUR5052.

Changed PCs to active voice.

Reference to: 'two different surveying datasets' in first sentence of PE may be problematic at audit as no specific details provided

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

CPPSUR5052 Integrate surveying datasets

Modification history

| Release | Comments |
|---------|--|
| 1 | Replaces superseded equivalent CPPSIS5052A Integrate surveying datasets. This version first released with CPP Property Services Training Package Version 3. |
| | Replaces superseded equivalent CPPSIS5052 Integrate surveying datasets |

Application

This unit specifies the skills and knowledge required to use technology and software applications to integrate spatial datasets captured using surveying methods and equipment. The unit covers importing or downloading, editing, checking and validating measured datasets. It also covers processing and comparing integrated datasets to check accuracy and resolve errors, and finalising the process by archiving data and completing documentation. The unit requires the ability to consult with appropriate persons to define project requirements and report outcomes; interpret field records, images and technical descriptions of data; and apply mathematical concepts used in surveying.

The unit supports those who work in a lead role in a surveying or spatial information services team.

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

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|---|--|
| 1. Prepare to integrate surveying datasets. | 1.1 Identify project specifications in consultation with appropriate persons. 1.2 Import or download measured datasets into a processing package according to project specifications. 1.3 Check, validate and record measurements according to project specifications. 1.4 Edit data according to project specifications and organisational requirements. |
| 2. Process surveying datasets. | 2.1 Process measured data for comparison with dataset design using a processing package. 2.2 Validate and record measurements according to project specifications. 2.3 Complete checks on integrated data, and identify and resolve problems or manage contingencies, according to organisational requirements. |
| 3. Finalise surveying dataset integration. | 3.1 Complete documentation promptly and accurately according to organisational requirements. |

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| | 3.2 Inform appropriate persons of results of dataset integration according to organisational requirements. 3.3 Archive data according to project specifications and organisational requirements. |
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Foundation Skills

Candidates require:

- initiative and enterprise skills to:
 - select and apply different software applications to meet specific project requirements
- numeracy skills to:
 - apply mathematical concepts relating to depth, dimension, direction, height and position to check data measured through surveying activities
- oral communication skills to:
 - ask questions to clarify client and project requirements
 - seek advice to resolve problems
- reading skills to:
 - interpret field records, images and detailed technical descriptions of spatial data
- writing skills to:
 - record measurements with accuracy and precision
- technology skills to:
 - use a computer and software to manipulate and compare spatial data
- problem-solving skills to:
 - apply contingency measures to resolve identified errors.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS5052 Integrate surveying datasets

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSUR5052 Integrate surveying datasets

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by integrating two different surveying datasets.

While integrating the above surveying datasets, the candidate must:

- exercise precision when editing, processing, comparing, manipulating and archiving spatial data
- select and use industry-accepted processing packages to process surveying datasets into integrated format
- comply with legal requirements when accessing and managing spatial data
- apply contingency measures when solving problems relating to accuracy and compatibility of data
- comply with organisational requirements for:
 - communicating with clients and other appropriate persons
 - recording data and completing documentation
 - working safely when using screen-based equipment
- 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:

- different types of surveying equipment used to capture spatial data
- legal requirements for accessing, storing, retrieving and archiving digital and hard copy spatial data, including data privacy and information copyright
- methods for comparing and checking different spatial datasets
- organisational requirements relating to:
 - work health and safety
 - recording data
 - completing documentation
- key features of software applications used to compute measured spatial datasets
- spatial data capture methodologies
- spatial data formats and structures
- spatial data reduction techniques
- key features of spatial reference systems
- project specifications:
 - constraints
 - deliverables
 - principal work activities
- appropriate persons:

- client
- field hand
- manager
- registered or qualified surveyor
- site personnel.

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 integrating surveying datasets
- specifications:
 - organisational policies, procedures and documentation 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

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