



Australian Government

CPPSIS5052 Integrate surveying datasets

Release: 1

CPPSIS5052 Integrate surveying datasets

Modification History

Release 1.

Replaces superseded equivalent CPPSIS5052A Integrate surveying datasets.

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

Application

This unit of competency specifies the outcomes 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 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. Prepare to integrate surveying datasets. | 1.1. <i>Project specifications</i> are identified in consultation with <i>appropriate persons</i> . |
| | 1.2. Measured datasets are imported or downloaded into a processing package according to project specifications. |
| | 1.3. Measurements are checked, validated and recorded |

according to project specifications.

- 1.4. Data is edited according to project specifications and organisational requirements.
2. Process surveying datasets.
 - 2.1. Measured data is processed for comparison with dataset design using a processing package.
 - 2.2. Measurements are validated and recorded according to project specifications.
 - 2.3. Checks on integrated data are completed, and problems are identified and resolved or contingencies managed, according to organisational requirements.
3. Finalise surveying dataset integration.
 - 3.1. Documentation is promptly and accurately completed according to organisational requirements.
 - 3.2. Appropriate persons are informed of results of dataset integration according to organisational requirements.
 - 3.3. Data is archived according to project specifications and 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.

Skill	Performance feature
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	ask questions to clarify client and project requirements

- skills to:
- 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.

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.

- Project specifications*** must include:
- constraints
 - deliverables
 - principal work activities.

- Appropriate persons*** must include at least one of the following:
- client
 - field hand
 - manager
 - registered or qualified surveyor
 - site personnel.

Unit Mapping Information

CPPSIS5052A Integrate surveying datasets

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for CPPSIS5052 Integrate surveying datasets

Modification History

Release 1.

Replaces superseded equivalent CPPSIS5052A Integrate surveying datasets.

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

Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also integrate two different surveying datasets.

While integrating the above surveying datasets, the person 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

A person demonstrating competency in this unit 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.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- 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.

Timeframe:

- as specified by task and organisational requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

Links

Companion Volume implementation guides are found in VETNet -

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