



Australian Government

CPPSSI5052 Integrate surveying datasets

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to 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. It includes importing or downloading, editing, checking and validating measured datasets. The unit also includes processing and comparing integrated datasets to check accuracy and resolve errors and finalising the process by archiving data and completing documentation.

This unit is suitable for skilled surveying technicians and skilled spatial information system (SIS) technicians who use a broad range of cognitive, technical and communication skills to select and apply methods and technologies to analyse information and provide solutions to sometimes complex surveying/spatial information problems.

Surveying and spatial information skills are applied in a range of industry contexts, including town planning, civil construction, mining, engineering, health, agriculture and defence.

All work must be carried out to comply with workplace procedures, in accordance with relevant state/territory regulations that govern surveying work, as well as work health and safety (WHS) legislation and regulations that apply to the workplace.

Cadastral surveying must be undertaken under the supervision of a registered surveyor. Users must check with the relevant regulatory state/territory authority before delivery.

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

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Prepare to integrate surveying datasets.	1.1 Review project specifications and dataset requirements. 1.2 Check and validate accuracy of recorded measurements according to project specifications. 1.3 Import or download measured datasets into a processing package according to project specifications.
2 Process surveying datasets.	2.1 Select and apply appropriate software application to view and process data. 2.2 Edit data according to project specifications and organisational requirements. 2.3 Process and compare measured data with dataset design using an appropriate processing software. 2.4 Check consistency and integrity of integrated data. 2.5 Identify and resolve problems according to project requirements.
3 Finalise surveying dataset integration.	3.1 Complete documentation promptly and accurately according to organisational requirements. 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.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS5052 Integrate surveying datasets.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSSI5052 Integrate surveying datasets

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Performance Evidence

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

Knowledge Evidence

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

- mathematical concepts relating to depth, dimension, direction, height and position
- different types of surveying equipment used to capture spatial data
- types of spatial data
- methods of spatial data capture
- key features of software applications used to compute measured spatial datasets
- spatial data formats and structures
- spatial data reduction techniques
- methods for comparing and checking different spatial datasets
- key features of spatial reference systems
- industry-accepted methods for assessing the validity and integrity of spatial data and resolving errors
- legislative requirements for accessing, storing, retrieving and archiving digital and hard copy spatial data, including data privacy, copyright and licensing.

Assessment Conditions

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

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- computer with software appropriate for integrating surveying datasets.

Links

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