



Australian Government

CPPSSI3015 Collect basic surveying data

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 CPPSIS3015 Collect basic surveying data.

Application

This unit specifies the skills and knowledge required to collect basic surveying data using measurements taken in the field. Basic surveying data refers to measurements of distances, angles and height.

It includes operating equipment to take basic surveying measurements and performing required data computations and reductions to establish accurate data before leaving the field.

This unit is suitable for surveying or spatial information services assistants working under supervision. They use cognitive, technical and communication skills to select and apply a range of methods, tools, materials and information to complete routine activities and provide solutions to predictable and sometimes unpredictable problems.

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 essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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|------------------------------------|---|
| 1 Prepare for data collection. | 1.1 Clarify data collection requirements for basic surveying tasks with appropriate persons. |
| | 1.2 Identify organisational, legislative and manufacturer requirements for safe data collection. |
| | 1.3 Select equipment and collection method to meet task requirements in consultation with appropriate persons. |
| | 1.4 Implement safe work practices and use of personal protective equipment (PPE) to mitigate identified hazards and risks, according to organisational requirements. |
| 2 Carry out basic data collection. | 2.1 Set up and use selected equipment, according to manufacturer specifications and standard operating procedures, to collect basic surveying data to meet task requirements. |
| | 2.2 Comply with relevant safe work method statements (SWMSs) during data collection. |
| | 2.3 Collect measurements and data accurately using organisational procedures and proformas. |
| | 2.4 Determine position for survey station, perform and record a traverse, and collect designated attributes for designated features. |
| | 2.5 Record, calculate, reduce and check measurements before leaving site, according to organisational requirements. |
| 3 Finalise data collection. | 3.1 Complete documentation and store data, according to organisational requirements. |
| | 3.2 Clean, pack and store equipment, according to manufacturer and organisational requirements. |
| | 3.3 Report any equipment faults or operational problems, according to 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 CPPSIS3015 Collect basic surveying data.

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 CPPSSI3015 Collect basic surveying data

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by accurately recording basic surveying data for two field projects.

Each field project must cover:

- closed traverse
- detail survey
- contour survey
- closed level run.

Each project must use a global navigation satellite system (GNSS) or total station and one piece of equipment from the following:

- measuring tape
- automatic, digital or laser level
- ground penetrating radar
- terrestrial laser scanner
- survey drone or unmanned aerial vehicle (UAV).

Knowledge Evidence

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

- uses and features of data collection equipment
- care of data collection equipment
- factors affecting equipment use and accuracy of data
- attributes associated with a dataset
- accepted industry standards for recording surveying metadata
- organisational and industry procedures relating to:
 - collecting, recording and storing surveying data
 - work tasks, including equipment use
- work health and safety (WHS) procedures relating to data collection activities.

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:

- surveying data collection equipment.

Links

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