

**Draft 0.1**

This is a draft update to CPPSIS3015 Collect basic surveying data:  
<https://training.gov.au/Training/Details/CPPSIS3015>

Changed code to CPPSI3015 to comply with NSSC endorsement policy.

Deleted: 'with accuracy of one centimetre or better' in third sentence of the Application.

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

'appropriate persons' moved from Range to KE

## Unit of Competency

### CPPSI3015 Collect basic surveying data

#### Modification history

Release	Comments
	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 difference.

The unit covers preparing for data collection by clarifying the data collection tasks and equipment to be used, and identifying and reporting hazards. The unit also covers operating equipment to take basic surveying measurements, and performing required data reductions and computations to ensure the accuracy of collected data before leaving the field. It requires the ability to follow standard operating procedures for setting up, using, checking and storing equipment and the ability to complete records and documentation.

A person who achieves this unit is able to work under supervision in a surveying and spatial information services team, in positions relating to field data collection.

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

#### Prerequisite Unit

None

#### Unit Sector

Surveying and Spatial Information Services (SSI)

#### Elements and Performance Criteria

1. Prepare for data collection tasks.	1.1 Clarify data collection requirements and basic surveying tasks with appropriate persons. 1.2 Select and set up equipment and collection method to meet task requirements in consultation with appropriate persons. 1.3 Identify hazards, control risks and report according to organisational requirements.
2. Carry out basic data collection tasks.	2.1 Identify and report factors affecting equipment use and accuracy of data. 2.2 Collect basic surveying data using selected equipment according to manufacturer specifications, standard operating procedures, and task requirements. 2.3 Record, calculate, check and/or reduce measurements before leaving site, according to organisational requirements.
3. Finalise data collection tasks.	3.1 Complete documentation and store data, according to organisational requirements. 3.2 Check equipment and report faults and problems. 3.3 Pack and store equipment, according to manufacturer and organisational requirements.

## Foundation Skills

This section describes the language, literacy and employment skills essential for performance in this unit of competency which are not explicit in the performance criteria. Candidates require:

- numeracy skills to perform mathematical reductions.
- oral communication skills to ask questions to clarify task requirements and equipment selection.
- reading skills to locate specific information in forms and standard operating procedures required for using equipment and recording collected data.
- writing skills to record clear and accurate measurements, computations, and field checks.

## Unit Mapping Information

Supersedes and is equivalent to CPPSIS3015 Collect basic surveying data

## Links

The Companion Volume Implementation Guide for the Property Services Training Package is available at: <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

## Assessment Requirements for CPPSSI3015 Collect basic surveying data

### Modification history

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### Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by accurately recording basic surveying data for two field projects, including data relating to the position of geographic features and their attributes, including angles, distances and height.

During the projects, the candidate must collect the basic surveying data using two of the following pieces of equipment:

- automatic, digital or laser level
- electromagnetic recording equipment
- global positioning system (GPS) for:
  - determining point position
  - navigating and recording a traverse
  - collecting designated attributes for designated features
- ground penetrating radar
- total station
- terrestrial laser scanner
- unmanned aerial vehicle (UAV) or survey drone.

In addition, while collecting basic surveying data, the candidate must use two of the following:

- digital or hard copy maps and images
- distance measuring
- measuring bearings or angles
- measuring vertical angles or slopes
- measuring point positions.

During the above projects, the candidate must also:

- communicate clearly with others to clarify work tasks and equipment selection
- comply with organisational, legislative and manufacturer requirements to work safely and use personal protective equipment (PPE)
- comply with relevant safe work method statements (SWMS)
- follow manufacturer specifications and standard operating procedures to correctly set up, operate, pack up, and store tools and equipment
- use organisational and industry procedures and proformas to accurately collect and record measurements and data.

### Knowledge Evidence

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

- appropriate persons for clarifying task requirements
  - experienced colleague
  - site personnel

- supervisor or line manager
- accepted organisational standards for recording surveying metadata
- attributes associated with a dataset
- organisational and industry policies and procedures relating to collecting, recording and storing surveying data
- organisational and industry procedures relating to work tasks specified in the performance evidence, including equipment use
- spatial data collection procedures for equipment used, as specified in the performance evidence
- work health and safety procedures relating to data collection activities.

### 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 should work under supervision and must have access to:

- equipment as specified in the performance evidence
- documentation for standard operating procedures and documentation relating to data collection tasks.

Work must be complete within time frames as specified by task and organisational requirements.

### Links

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