



Australian Government

CPPSIS2012 Assist in collecting basic spatial data

Release: 1

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Modification History

Release 1.

Replaces superseded non-equivalent CPPSIS2012A Assist in the collection of spatial data.

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

Application

This unit of competency specifies the outcomes required to assist team members to collect basic spatial data in the field using surveying methods. Basic spatial data refers to measurements of distances, angles and height difference. The unit covers preparing for data collection by clarifying tasks and equipment to be used, and checking equipment for safe working order. The unit also covers participating in spatial data gathering activities, including recording data in the correct format and using equipment in a safe manner. It covers finalising work tasks by checking and storing equipment and reporting faults or problems, and completing and storing data and documentation. The unit requires the ability to follow instructions and communicate with team members, and to apply mathematical concepts used for basic surveying methods.

The unit supports those who work under direct supervision in a surveying team, in positions relating to field data collection and administration.

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 collect basic spatial data.	1.1. Task requirements are clarified with <i>appropriate persons</i> . 1.2. Equipment is selected to meet task requirements in

consultation with appropriate persons.

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| | | 1.3. | Equipment is checked to ensure it is in safe working order according to organisational requirements. |
| 2. | Collect basic spatial data. | 2.1. | Data is collected and recorded in correct format in line with task and organisational requirements. |
| | | 2.2. | Data is checked for accuracy and problems are reported to appropriate persons. |
| | | 2.3. | Equipment is used according to task and safety requirements and manufacturer specifications, and problems are reported to appropriate persons. |
| 3. | Finalise spatial data collection tasks. | 3.1. | Equipment is checked and stored safely according to organisational requirements and manufacturer specifications. |
| | | 3.2. | Unsafe or faulty equipment is reported according to organisational requirements. |
| | | 3.3. | Data and documentation are completed and stored according to 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
Numeracy skills to:	use mathematical concepts in surveying methods relating to distance and angles.
Oral communication skills to:	ask questions to clarify task requirements and equipment selection.
Reading skills to:	- locate specific information in standard operating procedures - understand forms required for recording collected data.

Writing skills to:

- record clear and accurate measurements that can be interpreted by a third party.

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.

Appropriate persons must include at least one of the following:

- experienced colleague
- site personnel
- supervisor or line manager.

Unit Mapping Information

No equivalent unit.

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 CPPSIS2012 Assist in collecting basic spatial data

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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 collect basic spatial data for two field projects according to organisational procedures and instructions, and using surveying methods. For each project, the person must use safety equipment, including personal protective equipment (PPE), and a communication device.

During the above projects, the person must collect the basic spatial data using four of the following tools and equipment:

- clinometer or device to measure vertical angles
- compass
- data recording equipment
- digital or hard copy map
- distance measuring tape
- distance measuring wheel
- level
- scientific calculator
- simple global positioning system (GPS) device to determine position
- simple laser measuring device.

While assisting in collecting the above basic spatial data, the person must:

- communicate clearly with others to clarify work tasks and equipment use
- comply with organisational requirements and manufacturer specifications
- report problems and seek assistance with work tasks
- use organisational proformas to record accurate measurements and data.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- industry-accepted standards for recording surveying measurements and data
- organisational policies and procedures relating to:

- accessing manufacturer specifications
- collecting spatial data
- formats for records and documentation
- reporting problems
- selecting and using the tools and equipment specified in the performance evidence
- using communications equipment
- working safely when using surveying equipment and working in the field.

Assessment Conditions

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

- equipment:
 - as specified in the performance evidence
 - PPE
- specifications:
 - equipment operating manuals and manufacturer specifications
 - standard operating procedures and documentation relating to work tasks
- relationships with team members and supervisor:
 - access to supervisor and other appropriate persons for assistance with work tasks.

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

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