



Australian Government

Assessment Requirements for CPPSIS4030

Operate surveying equipment

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS4030A Operate surveying equipment.

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 operate the following surveying equipment for spatial data capture or data set-out for two different surveying tasks:

- hand-held global positioning system (GPS) in single point positioning mode for:
 - determining point position
 - navigating and recording a traverse
 - collecting designated attributes for designated features
- automatic, digital or laser level
- total station.

In addition, while capturing or setting out surveying data for the above surveying tasks, the person must use two of the following pieces of surveying equipment:

- compass
- clinometer
- data recording equipment
- digital or hard copy map or image
- distance measuring wheel
- hand-held laser measuring device
- tape.

While capturing or setting out the above spatial data, the person must:

- plan work activities to meet design and task specifications
- communicate clearly with others to clarify work tasks and report problems and errors relating to data or equipment
- accurately perform the following:
 - checks to validate measurements and identify potential faults and problems with equipment
 - data manipulations and reductions

- measurements and computations that meet industry-accepted standards for accuracy, including calculating horizontal and vertical information
- comply with organisational, legislative and manufacturer requirements in order to work safely, including:
 - using personal protective equipment (PPE)
 - complying with relevant safe work method statements (SWMS)
 - identifying and managing hazards and risks
- cooperate with team members to operate equipment
- follow manufacturer specifications and standard operating procedures to correctly set up, operate, pack up and store surveying equipment and tools
- use organisational proformas to accurately record measurements and data.

Knowledge Evidence

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

- accepted organisational standards for recording metadata
- attributes associated with a spatial dataset
- key features of spatial reference systems
- limitations of the surveying equipment specified in the performance evidence
- methods for downloading spatial data collected using the surveying equipment specified in the performance evidence
- methods for setting up, levelling, calibrating and using the surveying equipment specified in the performance evidence
- organisational policies and procedures relating to surveying data collection and set-out, and storage and retrieval of collected data
- organisational procedures for hazard reporting, and equipment use and maintenance
- surveying data acquisition methodologies using equipment specified in the performance evidence.

Assessment Conditions

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

- equipment:
 - as specified in the performance evidence
- specifications:
 - equipment operating manuals
 - standard operating procedures and documentation relating to work tasks
- 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>