



Australian Government

Assessment Requirements for CPPSSI4030 Operate surveying equipment

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 CPPSIS4030 Operate surveying equipment.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit for two different surveying tasks.

In completing the surveying tasks the candidate must operate a total station and an automatic, digital or laser level as well as one other item of surveying equipment for spatial data capture or data set-out from the following:

- real-time kinematic (RTK) equipment/global navigation satellite system (GNSS)
- terrestrial laser scanner
- unmanned aerial vehicle (UAV).

The candidate must use two of the following while capturing or setting out surveying data for each of the above surveying tasks:

- compass
- data-recording equipment
- digital or hard-copy map or image
- distance-measuring wheel
- hand-held laser measuring device
- measuring tape
- prism with prism pole
- levelling staff
- retro targets.

Knowledge Evidence

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

- types, functions and limitations of surveying equipment
- methods for setting up, levelling, checking calibration and using the surveying equipment
- techniques to solve basic problems relating to height, dimension, direction and position
- key features of geographic and projected spatial reference systems

- key features of the Australian Height Datum
- acquisition methods for surveying data
- attributes associated with a spatial dataset
- methods for downloading spatial data collected using the surveying equipment
- accepted organisational standards for recording metadata
- use of personal protective equipment (PPE)
- relevant safe work method statements (SWMS) and job safety analyses (JSA).

Assessment Conditions

Assessors must meet 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:

- equipment
- equipment operating manuals
- standard operating procedures and documentation relating to work tasks.

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>