



Australian Government

Assessment Requirements for CPPSSI6035 Conduct complex engineering set-out surveys

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 CPPSIS6035 Conduct complex engineering set-out surveys.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by conducting two different complex engineering set-out surveys.

For each complex engineering set-out survey, the candidate must:

- conduct set-out measurements and calculations to meet engineering specifications using two of the following pieces of surveying equipment:
 - current meter
 - global navigation satellite system (GNSS)
 - level
 - tape
 - theodolite
 - total station.

Knowledge Evidence

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

- legislative requirements, and industry standards relating to engineering set-out surveys
- set-out considerations for:
 - civil works, including roads and pipelines
 - buildings, including curved structures and footings
 - cul-de-sacs
- methods for setting up, levelling and calibrating surveying equipment
- data capture, set-out and reduction techniques
- graphical and technical information in engineering plans
- accuracy and precision requirements for setting out surveying data
- methods for calculating surveying data and verifying its accuracy using primary and secondary controls
- industry-accepted methods for validating data to identify errors and discrepancies

- methods for establishing a control network that meets specified tolerances
- organisational policies and procedures relating to:
 - work health and safety (WHS) relating to surveying activities
 - reporting and documentation
 - using and allocating resources
 - using surveying equipment
- reference and coordinate systems for surveying data, including Australian Height Datum and Map Grid of Australia.

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:

- personal protective equipment (PPE)
- survey specifications, including relevant engineering plans and drawings.

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>