



Australian Government

Assessment Requirements for CPPSSI5048 Conduct engineering 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 CPPSIS5048 Conduct engineering surveys.

Performance Evidence

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

For each engineering survey, the candidate must:

- develop project files in digital and hard copy formats
- collect data appropriate to surveying specifications by using three of the following pieces of surveying equipment:
 - global navigation satellite system (GNSS)
 - level
 - measuring tape
 - total station
- apply one of the following set-outs:
 - grid
 - road alignments
 - pipe (stormwater and sewer)
 - building
 - tunnel
 - bridge.

Knowledge Evidence

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

- types and procedures for topographical surveys
- methods of feature coding
- data reduction techniques
- graphical and technical information in construction and engineering drawings
- methods for calibrating surveying equipment

- accuracy and precision requirements for surveying data
- measurements and computations relating to length, angle, elevation, area and volume
- industry-accepted standards for measurements and computations
- industry-accepted methods for validating data and identifying errors and discrepancies
- methods of identifying and reporting non-conformities in collected surveying data
- key features of reference systems for surveying data
- techniques for scheduling work tasks and planning for contingencies
- state/territory and Commonwealth standards for surveying
- safe work practices and use of personal protective equipment (PPE).

Assessment Conditions

Assessors must satisfy 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:

- PPE
- survey specifications which may include relevant construction or 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>