



Australian Government

Assessment Requirements for CPPSSI5057

Conduct precision 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 CPPSIS5057 Conduct precision surveys.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by conducting two different precision surveys selected from the list below:

- precise levelling run, using one of the following pieces of specialised equipment and relevant attachments:
 - digital level
 - total station.
- precise setting out using one of the following pieces of equipment and relevant attachments:
 - total station
 - zenith and nadir auto plumb instruments
 - auto collimation and laser eyepieces.
- precise setting out using one of the following remote measuring systems:
 - precise intersection techniques
 - robotic instruments.
- precise monitoring survey using one of the following pieces of equipment and relevant attachments:
 - digital level
 - total station
 - robotic instruments.

Knowledge Evidence

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

- graphical and technical information in construction and engineering plans
- common terms used in precision surveying calculations
- standard survey plan design and presentation conventions
- types of surveying equipment used in precision surveys

- types of surveying equipment attachments and their uses
- methods for checking calibration of specialist instruments and attachments
- application of electromagnetic measuring principles and techniques
- data reduction techniques
- concepts of algebra, geometry and trigonometry
- industry-accepted methods for error analysis and standards for accuracy.

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:

- surveying equipment
- personal protective equipment (PPE)
- survey specifications, including relevant 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>