



Australian Government

Assessment Requirements for CPPSSI5058 Conduct geodetic 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 CPPSIS5058 Conduct geodetic surveys.

Performance Evidence

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

The following equipment must be used:

- total station
- global navigation satellite system (GNSS) software.

Each survey must include:

- application of relevant geodetic coordinate systems and reference points to survey activities
- use of coordinate systems, including Map Grid of Australia and Geocentric Datum of Australia to manage surveying data.

Knowledge Evidence

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

- graphical and technical information in project specifications
- common terms used in geodetic surveying calculations
- standard survey plan design and presentation conventions
- geodetic formulas for point-to-point calculations on Map Grid of Australia
- reference surfaces, projection planes and coordinate systems for geodetic components
- measurements and calculations relating to shape and size of the earth
- data reduction techniques
- concepts of algebra, geometry and trigonometry
- accuracy and precision requirements for geodetic surveying data
- coordinate systems that are compatible with GNSS
- industry-accepted methods for error analysis and standards of accuracy
- industry-accepted techniques for survey control.

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:

- equipment to conduct geodetic surveys
 - 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>