



Australian Government

Assessment Requirements for CPPSSI5053 Perform complex surveying computations

Release: 1

Assessment Requirements for CPPSSI5053 Perform complex surveying computations

Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS5053 Perform advanced surveying computations.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by accurately performing and recording complex computations required in surveying practice.

Candidates must:

- perform two complex measurements for using circular geometry and trigonometry
- interpret statistics from two adjustments relating to normal curve and distributions, and standard deviations and errors
- solve two computational problems relating to angular, linear and height observations
- perform two transformations for east and north coordinates from one system to another.

Knowledge Evidence

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

- principles of algebra, geometry and trigonometry to calculate area, height and missing lines
- features of complex computational data provided in diagrammatic form
- industry-accepted standards relating to accuracy and tolerances for surveying computations
- methods for:
 - calculating linear, angular and height measurements
 - computing data from supplied field information
 - checking accuracy of computations to identify errors and solve problems
- organisational guidelines relating to completing records and documentation.

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:

- scientific or programmable calculator or a software application that includes surveying calculations.

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>