



Australian Government

Assessment Requirements for CPPSSI4031 Perform surveying computations

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 CPPSIS4031 Perform surveying computations.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by accurately performing and checking the following computations:

- two calculations of areas from bearings and distances or coordinates
- two calculations of angles, distances, perimeters and areas for simple figures and two for complex figures
- two calculations of surveying data required to set out structures in relation to curves and lines
- two resection calculations
- two intersection calculations
- two traverse calculations including:
 - coordinates (easting and northing)
 - linear misclose and accuracy ratio
 - compass/Bowditch adjustment and area calculation.

Knowledge Evidence

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

- common computational terms and methods used in surveying
- types of traverse
- methods for checking accuracy of computations to identify errors and solve problems
- methods for computing basic traverse data
- optimum geometry for resection and intersection observations
- sources of error when carrying out resection and intersection observations
- organisational procedures for completing surveying records and documentation.

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:

- scientific or programmable calculator.

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>