



Australian Government

Assessment Requirements for CPPSIS5053 Perform advanced surveying computations

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5053A Perform advanced surveying computations.

This version first released with CPP Property Services Training Package Version 3.

Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also accurately perform advanced computations for two different surveying tasks.

While performing the above advanced surveying computations, the person must:

- communicate clearly with others to clarify work tasks
- comply with organisational requirements and relevant standards essential to the accuracy of:
 - measurement, including circular geometry and trigonometry
 - calculating horizontal and vertical information
 - recorded computations
- exercise precision and accuracy in performing advanced surveying computations
- interpret statistics from adjustments relating to normal curve and distributions, and standard deviations and errors
- select and use the computational equipment specified in the assessment conditions, to perform advanced surveying computations
- solve computational problems relating to angular, linear and height observations
- transform east and north coordinates from one system to another
- check accuracy of computations and make necessary adjustments
- comply with organisational requirements relating to completing records and documentation.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- industry-accepted standards relating to accuracy and tolerances for surveying computations
- methods for performing the following:
 - computing data from supplied field information
 - solving complex surveying computations
 - checking accuracy of computations to identify errors and solve problems

- organisational policies and guidelines relating to completing records and documentation.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - scientific or programmable calculator or a software application that includes surveying calculations
- specifications:
 - task requirements
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by task and organisational requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>