



Australian Government

Assessment Requirements for CPPSIS4031

Perform surveying computations

Release: 1

Assessment Requirements for CPPSIS4031 Perform surveying computations

Modification History

Release 1.

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

Replaces superseded equivalent CPPSIS4031A Perform surveying computations.

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 the following computations for two different surveying tasks:

- calculate areas from bearings and distances or coordinates
- calculate angles, distances, perimeter and area for simple and complex figures
- set out data for simple horizontal curves
- calculate surveying data required to set out the position of curves and structures
- traverse calculations in east, north, misclose and adjustment calculations, and calculations based on adjusted coordinates
- traverse types, include opening and closing on same point and different points of known coordinates.

While performing the above surveying computations, the person must:

- communicate clearly with others to clarify work tasks and computational results
- comply with organisational requirements and industry-accepted standards for:
 - systematically and legibly laying out computations
 - completing records and documentation
- examine the computational results and verify the accuracy of results.

Knowledge Evidence

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

- common computational terms used in surveying
- industry-accepted methods for performing surveying computations in a plane coordinate system
- methods for checking accuracy of computations to identify errors and solve problems
- methods for computing basic traverse data
- organisational procedures for completing surveying 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 specifications
 - organisational policies, procedures and documentation relating to work tasks
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by the 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>