



Australian Government

Assessment Requirements for CPPSIS5048 Conduct engineering surveys

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5048A Conduct an engineering survey.

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 conduct two different engineering surveys.

While conducting the above engineering surveys, the person must:

- plan and document data collection methodologies that allow for contingencies
- analyse survey specifications, including:
 - cross-sections and plans
 - technical descriptions of surveying data and their requirements
- collect data appropriate to surveying specifications using three of the following pieces of surveying equipment:
 - echo sounder
 - global navigation satellite system (GNSS)
 - level
 - tape
 - total station
- communicate clearly with others to clarify and report work information
- comply with organisational and legal requirements for:
 - applying industry-accepted standards to measurements and computations
 - completing records and documentation
 - recording, storing and filing data
 - using, checking and storing surveying equipment
 - working safely and using personal protective equipment (PPE)
- interpret design information to identify components to be measured
- comply with industry-accepted standards for validating accuracy of surveying data and identifying errors and discrepancies
- schedule work tasks to meet survey timeframes.

Knowledge Evidence

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

- accuracy and precision requirements for surveying data
- data reduction techniques
- industry-accepted methods for validating data to identify errors and discrepancies
- methods for calibrating surveying equipment
- methods for identifying and reporting non-conformities in collected surveying data
- organisational policies and procedures relating to:
 - health and safety relating to survey activities and work on construction sites
 - reporting and documentation
 - using the surveying equipment specified in the performance evidence
- project management techniques for scheduling work tasks and planning for contingencies
- key features of reference systems for surveying data.

Assessment Conditions

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

- equipment:
 - as specified in the performance evidence, including PPE
- specifications:
 - survey specifications, including relevant construction or engineering plans and drawings
 - organisational policies, procedures and documentation relating to work health and safety
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by project 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>