



Australian Government

Assessment Requirements for CPPSIS5058

Conduct geodetic surveys

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5058A Conduct geodetic surveying.

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 a geodetic survey for two different projects.

While conducting the above geodetic surveys, the person must:

- analyse standards, specifications and information, including plans and drawings to determine survey requirements
- prepare for the survey by analysing specifications and operating environment to ensure adequate equipment and resources
- carry out a precise global navigation satellite system (GNSS) traverse for survey control using two of the following pieces of equipment:
 - barometer
 - GNSS equipment
 - thermometer
- identify and apply relevant geodetic coordinate systems and reference points to survey activities
- measure and compute GNSS survey traverse components using GNSS equipment and appropriate software to aid geodetic calculations
- perform calculations in a logical progression to solve geodetic surveying problems
- use coordinate systems, including Map Grid of Australia (MGA) and Geocentric Datum of Australia (GDA) to manage surveying data
- communicate clearly with clients and stakeholders to clarify and report survey information
- comply with industry-accepted standards for validating accuracy of data and identifying errors and discrepancies
- comply with organisational and legal requirements for:
 - completing records and documentation
 - recording, storing and filing data
 - using, checking and storing surveying equipment
 - working safely and using personal protective equipment (PPE)
- plan and implement project management mechanisms to ensure the survey is completed within required timeframes and project complies with specifications and standards

- plan and implement risk management and contingency strategies.

Knowledge Evidence

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

- accuracy and precision requirements for geodetic surveying data
- common terms used in geodetic surveying calculations
- coordinate systems that are compatible with GNSS, including MGA and GDA
- data reduction techniques
- industry-accepted methods for validating data to identify errors and discrepancies
- legislative, statutory and industry requirements and standards relating to work tasks
- organisational policies and procedures relating to:
 - health and safety relating to survey activities
 - reporting and documentation
 - using and allocating resources
 - using the equipment specified in the performance evidence
- project management techniques for scheduling, measuring and monitoring work progress and planning for risks and contingencies
- reference surfaces, projection planes and coordinate systems for geodetic components
- industry-accepted techniques for survey control
- standard survey plan design and presentation conventions.

Assessment Conditions

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

- equipment:
 - as specified in the performance evidence, including PPE
- specifications:
 - organisational policies, procedures and documentation relating to work health and safety
 - survey specifications, including relevant plans and drawings
- 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>