



Australian Government

Assessment Requirements for CPPSIS5047 Conduct GNSS surveys

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5047A Conduct an advanced GNSS data collection and set out survey.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 plan and conduct a global navigation satellite system (GNSS) survey for data collection and engineering set-outs for two different projects.

While conducting the above GNSS surveys, the person must:

- plan and document data collection methodologies that account for the following:
 - accessibility of marks
 - environmental considerations
 - field reconnaissance
 - GNSS methodology to be used
 - network design
 - placement of survey marks
 - work health and safety considerations
- schedule and allocate resources and work tasks
- collect data for GNSS positions, including differential methods
- operate GNSS equipment and software, as specified in the assessment conditions, to collect data appropriate to survey specifications
- communicate clearly with others to clarify and report work information
- analyse survey specifications, including:
 - cross-sections and plans
 - technical descriptions of surveying data and their requirements
- apply projection and datum parameters when using GNSS equipment and software
- comply with industry-accepted standards for validating accuracy of GNSS data
- comply with organisational requirements for:
 - completing records and documentation
 - recording, storing and filing data
 - using and storing GNSS equipment
 - working safely and using personal protective equipment (PPE)

- use industry-accepted validation methods to test accuracy of data and identify errors and discrepancies.

Knowledge Evidence

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

- accuracy and precision requirements for GNSS data and network surveys
- GNSS data formats and collection methods
- industry-accepted methods for validating data to identify errors and discrepancies
- methods for accessing, manipulating, retrieving and archiving GNSS data
- organisational policies and procedures relating to:
 - health and safety relating to survey activities
 - reporting and documentation
 - using and allocating resources
 - using GNSS equipment and software
- projection and datum parameters required for GNSS equipment and processing software
- reference systems for GNSS data
- techniques for project management
- types of GNSS equipment and software and their uses.

Assessment Conditions

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

- equipment:
 - geodetic GNSS receiver
 - GNSS equipment, including equipment capable of differential and real time modes of operation
 - GNSS software application
 - PPE
- specifications:
 - survey specifications
 - 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>