



Australian Government

Assessment Requirements for CPPSSI5047 Conduct GNSS surveys

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS5047 Conduct GNSS surveys.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by planning and conducting a global navigation satellite system (GNSS) survey for data collection and engineering set-outs for two different projects:

- one project must use a reference system such as Map Grid of Australia 2020
- one project must use a localisation system.

For each GNSS survey, the candidate must:

- document data collection
- use industry- accepted survey marks
- position survey marks to meet project specifications
- collect GNSS positional data using differential/real-time kinematic (RTK) techniques
- apply projection and datum parameters when using GNSS equipment and software.

Knowledge Evidence

To be competent in this unit a candidate must demonstrate knowledge of:

- graphical and technical information in maps, engineering drawings, field records and survey plots
- types of GNSS equipment, their categories and accuracies
- different GNSS data collection techniques, accuracies and applications
- GNSS data collection methods
- reference systems for GNSS data

projection and datum parameters required for GNSS equipment and processing software

- precision requirements for GNSS data
- methods for accessing, manipulating, retrieving and archiving GNSS data
- GNSS communication methods and protocols for interfacing with ancillary equipment
- industry-accepted standards and methods for validating accuracy of GNSS data
- industry-accepted methods for identifying errors and discrepancies

- legislative requirements for use of communication devices, including ultra-high frequency (UHF) devices
- organisational procedures relating to:
 - working safely and using personal protective equipment (PPE)
 - reporting and documentation
 - using and allocating resources
 - using GNSS equipment and software.

Assessment Conditions

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- geodetic GNSS receiver
- GNSS equipment, including equipment capable of differential and real-time modes of operation
- PPE
- survey specifications.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>