



Australian Government

Assessment Requirements for CPPSIS6032 Conduct advanced GNSS control surveys

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS6032A Conduct an advanced GNSS control survey.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 an advanced global navigation satellite system (GNSS) control survey for two different projects using the following pieces of equipment:

- geodetic GNSS receiver
- associated equipment capable of differential and real time modes of operations.

While conducting the above advanced GNSS control surveys, the person must:

- analyse survey specifications, including:
 - cross-sections and plans
 - technical descriptions of surveying data and their requirements
- plan and document survey methodologies and control data
- apply projection and datum parameters when using GNSS equipment and software
- collect data for GNSS positions, including differential methods
- communicate clearly with others to report work information and allocate duties
- comply with industry-accepted standards for validating accuracy of GNSS data and existing control network
- comply with organisational requirements for:
 - recording, storing and filing data
 - resource allocation
 - using and storing equipment
 - working safely, using personal protective equipment (PPE) when conducting field work
- conduct field reconnaissance to analyse existing control networks
- implement a network of horizontal and vertical control points
- identify non-conformances in control networks and the need for additional controls
- implement project management techniques to schedule, monitor and report on survey tasks and outcomes
- program and operate GNSS equipment and software to analyse and manipulate images and data.

Knowledge Evidence

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

- accuracy and precision requirements for GNSS control networks
- GNSS accuracy enhancement techniques
- GNSS availability, structures, capabilities and limitations
- GNSS control surveying techniques
- industry-accepted methods for validating set-out 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 and coordinate systems for surveying data, including Australian Height Datum and Map Grid of Australia
- situations and factors that impact on the effectiveness of GNSS technologies
- techniques for project management, including techniques for scheduling, monitoring and reporting on survey tasks and outcomes
- types of GNSS equipment and software and their uses.

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, plans, maps and photographs
 - organisational policies, procedures and documentation relating to work health and safety when using GNSS equipment and conducting field work
- relationships with team members and supervisor:
 - lead role 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>