



Australian Government

Assessment Requirements for CPPSIS4040

Collect spatial data using terrestrial technologies

Release: 1

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Modification History

Release 1.

Replaces superseded non-equivalent CPPSIS4029A Collect and set out basic surveying data.

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 collect spatial data using terrestrial technologies for two different projects in consultation with colleagues.

While collecting the above spatial data, the person must:

- plan work tasks by checking control marks and ensuring site conditions are appropriate for surveying tasks
- use a total station to collect the spatial data and related attributes
- measure and calculate basic spatial data based on control marks and set coordinates
- communicate clearly with others to clarify and report project information
- comply with organisational and legislative requirements for:
 - identifying hazards and working safely
 - recording, storing and filing data
- comply with manufacturer specifications when using above equipment
- use industry-accepted standards and procedures for checking accuracy of spatial data.

Knowledge Evidence

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

- accuracy ranges that can be achieved using terrestrial technologies
- formats and documentation used for recording spatial data collected using terrestrial technologies
- mathematical concepts relating to algebra, trigonometry and geometry and their use in calculating basic spatial measurements
- methods for calculating spatial data and verifying its accuracy using terrestrial technologies
- methods for downloading data collected using terrestrial technologies
- methods for setting up, levelling and calibrating equipment.

Assessment Conditions

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

- equipment:
 - total station
- specifications:
 - job specifications and plans
 - organisational policies and procedures relating to:
 - work health and safety
 - recording and storing spatial data
- 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>