

Australian Government

Assessment Requirements for CPPSSI5046 Set out roads and stormwater systems

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 not equivalent to CPPSIS5046 Set out stormwater systems.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by setting out two different projects:

- one project that sets out a stormwater system and associated engineering structures
- one project that includes road set-out.

For each project, the candidate must set out marks and lines to define the position and level of design points on site using two of the following pieces of equipment:

- total station
- global navigation satellite system (GNSS)
- level
- hand-held laser measuring device.

Knowledge Evidence

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

- types of stormwater systems and their purposes
- types and features of roads
- graphical information in plans, drawings and contour maps
- reference and coordinate systems for surveying data, including Australian Height Datum and Map Grid of Australia.
- types of pegs and markers used during set-out and methods for optimal placement on site
- mathematical concepts relating to algebra, trigonometry and geometry relevant to calculating spatial measurements for roads and stormwater systems
- methods for calculating surveying data and verifying its accuracy using primary and secondary controls
- methods for calculating fall of land and volume
- · purpose of primary and secondary controls for set-out
- methods for establishing a control network that meets specified tolerances

- methods for setting up, levelling and checking calibration of equipment used to set out road and stormwater systems
- methods for recording spatial data relating to set-out
- industry-accepted tolerances for accuracy relevant to roads and stormwater systems.

Assessment Conditions

Assessors must meet 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:

- personal protective equipment (PPE)
- task specifications, drawings, maps and plans
- surveying equipment.

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