Assessment Requirements for CPPSSI5065 Design basic engineering structures

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 CPPSIS5065 Design basic engineering structures.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by preparing a design to specifications and drawings for two projects. Each project must use a different structure selected from the following:

- rural road
- urban road
- sewer line
- stormwater drainage line
- building pad
- open drain
- ground level car park for 20 cars.

Knowledge Evidence

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

- graphical information in plans, drawings and maps
- file formats for engineering drawings:
    - data exchange format (DXF)
    - portable document format (PDF)
    - format used in triangulation process to define position of points and triangles (PTS)
    - Microsoft Excel (XLS) spreadsheet format
- key design considerations for basic engineering structures
- standard construction and engineering plan design and presentation conventions
- precision requirements for preparing engineering drawings using software
- relevant legislation, and local and state/territory government design standards.

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:

- computer and appropriate software
- project specifications, drawings, maps and related engineering plans.

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