



Australian Government

Assessment Requirements for CPPBDN4009 Analyse building design drawings and review findings

Release: 1

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Modification History

Release 1. New unit.

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

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must be able to provide evidence of the ability to analyse complete sets of drawings for the following three different types of building design projects, as defined by the Building Code of Australia (BCA). At least one of the building design projects must include a Class 10 component:

- one Class 1 building
- one Class 2 building
- one building selected from Classes 3 to 9.

At least one of the above building projects must be two storeys and one building project must be three storeys or more.

The person must present and discuss with the project architect or building designer:

- an analysis of relevant information, features and details included on architectural drawings, including:
 - details
 - elevations
 - plans:
 - footings and slab setout
 - roof framing layout
 - wall framing layout
 - sections
 - site plans
 - sub-floor and floor plans
- analysis of information, features and details included on drawings specifically required for the project from consultants as listed in the range of conditions
- clarification of unknown elements of drawings through consultation, as required
- anomalies in drawings, including strategies for producing corrections to drawings
- strategies for correcting drawings, as required.

Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate the knowledge required to analyse building design drawings for the building projects specified in the performance evidence, including:

- principles of structural engineering sufficient to recognise structural anomalies in building design drawings for the building projects and report them to the designer
- basic principles of the work of those construction professionals who are required to contribute to the building designs of the projects, including:
 - consultants
 - engineers
 - surveyors
- building construction techniques and processes applied to the construction of the buildings
- building materials used in the construction of the buildings, and their application
- building designers' duty of care to ensure quality and safety of designs
- construction terminology required to discuss content of internally and externally sourced drawings with work colleagues and designer
- conventions and formats used for:
 - architectural drawings
 - general technical drawings
- drawing standards:
 - AS1100.101 Technical drawing - General principles
 - AS1100.301 Technical drawing - Architectural drawing
 - AS1101.1 Graphic symbols for general engineering - Hydraulic and pneumatic systems
- types of drawings relevant to building design projects.

Assessment Conditions

Assessment must be conducted in the workplace or a close simulation of the workplace.

Suitable assessment of performance requires:

- equipment:
 - computer with internet access and building information modelling (BIM)-capable building design software materials
- relationships with team members and supervisor:
 - tasks may be completed as an individual and as a team member, under the direction of an architect, building designer or other relevant person
- specifications:
 - Australian standards for drawing
 - design drawings for building projects specified in the performance evidence.

Assessor requirements

As a minimum, assessors must satisfy SNR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>