



**Australian Government**

# **Assessment Requirements for CPPBDN4005 Review and report structural integrity of building designs**

**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. They must also be able to provide evidence of the ability to review complete sets of drawings and then report on the structural integrity of the designs of the following four 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
- two different buildings 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.

Within the context described above, a person must provide evidence of:

- assessing the structural integrity of footings, floors, walls, wall sheeting and cladding systems, roofs and roof cladding systems covering:
  - identification of site conditions for projects
  - analysis of types of construction and materials used
  - evaluation of loads, forces, stresses and strains that could act on the buildings and effects on materials and construction methods used
  - compliance with relevant legislation, codes and standards
- sourcing and interpreting:
  - building material compliance certificates
  - structural data and reports
- reporting and discussing findings with designer and consultant engineer, according to workplace procedures
- amending drawings according to instructions of designer.

## Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate the knowledge required to review and report on the structural integrity of building designs in relation to four different types of building design projects specified in the performance evidence, including:

- calculation methods for evaluating loads acting on buildings
- compliance requirements relating to the buildings' structural integrity
- construction methods used for the buildings specified in the performance evidence
- construction terminology required to discuss structural integrity of building designs with work colleagues, designer and consultant engineer
- drawing conventions, formats and standards
- drawing software functions
- loads and forces acting on buildings in different project locations, including nature of loads
- properties of structural building materials and responses to loads, stress and strain.

## 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
- 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:
  - BCA and Australian standards applicable to the four buildings specified in the performance evidence
  - building design plans and drawings for four buildings as 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>