



Australian Government

**Assessment Requirements for
CPPBDN4001 Research and evaluate
construction materials and methods for
building design projects**

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. The person must also be able to provide evidence of the ability to develop and maintain current research findings to support the building design process for the following three different types of building design projects, as defined in 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 produce research findings, with recommendations and supporting evidence for each of the above buildings, based on an evaluation of:

- features and applications of a range of at least three materials suitable for the structural elements and building envelope of each building project
- different construction methods and systems applicable to structural elements and building envelope for each building project
- systems and components for services, having considered:
 - relevant compliance requirements for each building project
 - installation methods for each building project.

The person must also be able to demonstrate a process for:

- seeking feedback on and distributing findings from each of the building projects
- maintaining the currency of research findings.

Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate knowledge of the sections of the BCA relevant to the classes and types of buildings specified in the performance evidence, including knowledge of the following:

- performance features of building materials detailed in the range of conditions, and the cost benefits of their application
- building construction methods used for different materials that form structural elements and the building envelope
- construction and design terminology to describe the features and applications of materials and construction methods used.

In addition, evidence of the following knowledge must be demonstrated relevant to the classes and types of buildings specified in the performance evidence:

- sources of reliable information on existing and emerging uses of construction materials and methods
- workplace procedures for handling, storing and retrieving research information and outcomes.

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 software currently used in architectural and building design practices
 - telephone
- 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 – access to:
 - BCA and Australian standards applicable to the buildings specified in the performance evidence
 - manufacturer specifications relating to construction materials and methods used in the buildings 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>