



Australian Government

**Assessment Requirements for
CPPBDN5105 Evaluate construction
materials and methods for Class 2-9
buildings up to two storeys**

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 11.0.

Supersedes and is not equivalent to:

- CPPBDN5001A Research construction materials and methods for small-scale residential building design projects.
- CPPBDN5002A Research construction materials and methods for small-scale non-residential building design projects.

Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by evaluating and reporting on suitable construction materials, methods and services for two different building designs involving Class 2-9 buildings as defined in the National Construction Code (NCC). Of the two building designs:

- each must be of a different NCC classification
- one must be a Class 2 or 3 building.

Knowledge Evidence

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

- relevant workplace, industry, work health and safety (WHS), legislative, regulatory and certification requirements
- NCC building classifications and constructions types
- correct terminology to define building construction and methodology
- application, behaviour, characteristics, performance and interactions of construction materials and methods
- construction methods and their strengths and weaknesses for different geographical locations and climatic conditions
- common hazards and risks of construction materials and methods
- basic principles of structural engineering
- sources of reliable information on traditional, contemporary and emerging uses of construction materials and methods
- applicable characteristics of traditional, contemporary and emerging materials:

- acoustic properties
- aesthetic properties
- availability
- cost-effectiveness
- defects
- durability
- fire resistance
- interaction with other materials
- limitations due to manufacturing process
- structural safety
- sustainability features, such as energy efficiency, thermal properties and lifecycle
- tolerances
- transport, storage and handling requirements
- site preparation requirements:
 - shoring
 - underpinning
 - de-watering
 - ground stabilisation
 - retaining structures
- sequencing of construction works
- services:
 - sewer
 - stormwater
 - domestic water supply
 - electrical and data
 - fire protection systems
 - heating, ventilation and air conditioning
 - lifts
 - artificial lighting.

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. This includes access to:

- computer with internet access and word processing software
- relevant regulations, codes and standards
- technical references with current information on construction materials and methods
- drafting equipment for computer or hand detail sketching.

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>