



Australian Government

**Assessment Requirements for
CPCCBS6102 Research and evaluate
construction methods and materials for
Class 2 to 9 buildings to three storeys**

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Modification History

- Release 1 This version released with CPC Construction, Plumbing and Services Training Package Release 6.0.
- Supersedes and is equivalent to CPCCBS6002 Research and evaluate construction methods and materials for commercial buildings to three storeys.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by researching and evaluating construction methods and materials to support building surveying services for three different projects involving the follow Classes of buildings as defined by the National Construction Code (NCC):

- one project incorporating Class 5 or Class 6
- one project incorporating Class 2 or Class 3 or Class 9c
- one project incorporating Class 7 or Class 8.

Each building must be up to three storeys and not exceeding 2,000 square metres in floor area, and in a different geographical location/area selected from the following:

- high wind area
- highly corrosive area (within 1 kilometre of the ocean)
- bushfire-prone area
- cyclone area
- earthquake area
- alpine area
- metropolitan area.

For each building, the candidate must evaluate:

- construction methods and materials in relation to different geographical locations and climatic conditions and note strengths and weaknesses of each context
- the application of different construction methods to:
 - foundations and footings
 - structural and supporting systems
 - enclosing systems
 - installation of services
- construction processes in relation to trade sequencing

- the application of different construction materials to:
 - foundations and footings
 - structural and supporting systems
 - enclosing systems.

Knowledge Evidence

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

- characteristics, including fire resistance and applications of materials suitable for structural elements and building envelope of buildings included in Classes 2 to 9
- compliance requirements of construction materials and methods for buildings included in Classes 2 to 9 in different geographic locations and climate zones:
 - NCC
 - Australian Standards referenced by the NCC
- components and systems for services associated with buildings included in Classes 2 to 9:
 - compliance requirements
 - installation methods
- different construction methods and systems applicable to the structural elements and building envelope of buildings included in Classes 2 to 9:
 - methods for site investigation and preparation:
 - principles and practices of site establishment: underpinning, de-watering, ground stabilisation and demolition procedures
 - soil investigation, assessment and clarification
 - foundations and footings:
 - anchors, including grouted, mechanical or rock
 - basements
 - damp proof courses
 - footing systems
 - grillage
 - ground stabilisation
 - membranes
 - pest control
 - retaining walls
 - shoring
 - systems for earthquake zones
 - tanking
 - underpinning
 - water exclusion
 - structural and supporting systems:
 - forces
 - loads

- openings
- spatial relationships
- stresses and strains applied to arches, beams, braces, columns, concrete floor slabs, load-bearing walls, masonry ties and anchors, roof frames (including trusses) and structural footings
- structural materials and systems for floors, roofs, sub-floors and walls
- systems for cyclonic areas and earthquake zones
- enclosing systems, materials and fixings:
 - claddings and linings
 - coatings
 - finishes
 - flashings
 - linings, including acoustic system installations and fire-rated systems
 - partitioning
 - sarking and insulations
 - wet areas
- information management procedures to maintain data currency, and classify and store information for easy retrieval
- NCC classifications and definitions for buildings included in Classes 2 to 9
- structural engineering principles sufficient to interpret and apply NCC requirements to work activities
- types and sources of reliable information on traditional, new and emerging uses of construction materials and methods.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessors must also:

- be licensed as a Building Surveyor Level 1 (or equivalent) or Level 2 (or equivalent) in their state or territory, or
- demonstrate current membership of a relevant industry association and have current registration on the National Building Professionals Register in the Building Industry Control category (level 1), or
- be accredited under the Australian Institute of Building Surveyors (AIBS) National Accreditation Scheme at Building Surveyor level or be accredited by the Royal Institute of Chartered Surveyors as a building certifier.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to equipment, software, documentation and materials required to achieve the performance evidence.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>