



Australian Government

Assessment Requirements for CPCCBC6013 Evaluate concrete performance for multi-storey buildings

Release: 3

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Modification History

- Release 3 Updated reference to general construction induction training program.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Minor typographical error corrected in Foundation Skills.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCBC6013A Evaluate materials for multi-storey buildings. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by evaluating the nature and performance of concrete materials and products that form the structural components of a complex multi-storey building project.

In doing this, the candidate must:

- determine compliance with the National Construction Code (NCC)
- ensure the Performance Requirements within the NCC are satisfied.

Knowledge Evidence

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

- working drawings, details and specifications
- the NCC:
 - Performance Requirements
 - Performance Solutions
 - Deemed-to-Satisfy Solutions
 - Assessment Methods
- government building and construction legislation and regulations
- characteristics, applications and limitations of concrete:
 - alternative uses
 - cost effectiveness

- hazard potential and environmental safety
- installation requirements
- need for use of cranes and hoists
- recycling capacity
- rubbish removal demands
- transport problems and restrictions
- applications of structural principles in buildings
- building types:
 - bridge and pier construction
 - buildings with concrete skeleton and slabs
 - concrete column or wall 10 metres high
 - slab on ground floor
- design principles and behaviour of structural members undergoing stress, strain, compression, bending or combined actions
- work health and safety (WHS) Acts and regulations and workplace safety requirements
- type, nature and performance of concrete:
 - properties and uses of cement
 - reinforced concrete:
 - methods of pre-stressed concrete
 - principles of reinforced concrete using steel, wire, fibres, etc
 - types of curing methods:
 - accelerated curing
 - continuously wetting concrete
 - impermeable membrane curing
- records, including details of:
 - causes of surface defects during concrete placement
 - compaction of concrete
 - finishing processes and surface treatments to slab concrete.

Assessment Conditions

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

Assessment can be undertaken in the workplace or in a simulated workplace environment.

A simulated environment is one that realistically replicates workplace conditions, materials and equipment, interactions with others and workplace irregularities, and which meets industry standards for safety and environmental practices.

Candidates must have access to:

- project working drawings, details and specifications
- government building and construction legislation

- current version of *AS 3600 Concrete structures* series of concrete standards
- the NCC
- concrete test results
- business equipment and technology to record sampling and testing data and to facilitate evaluation of concrete products for multi-storey buildings.

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>