



Australian Government

CPCCB6001 Apply building codes and standards to the construction process for large building projects

Release: 2

CPCBC6001 Apply building codes and standards to the construction process for large building projects

Modification History

Release 2 Updated reference to general construction induction training program.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCBC6001B Apply building codes and standards to the construction process for large building projects. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to access, interpret and apply relevant building codes and standards applicable to the construction processes of large, high-rise and complex buildings. It includes ensuring building design and specifications comply with the National Construction Code (NCC) and related standards for large residential or commercial building projects.

This unit of competency applies to builders, project managers and related construction industry professionals who make a range of critical decisions in relatively complex situations and take responsibility for their actions.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Licensing, regulatory or registration requirements apply to this unit of competency in some jurisdictions. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

Pre-requisite Unit

Nil.

Unit Sector

Building and Construction.

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Interpret relevant codes and standards' requirements.	1.1 Identify relevant clauses from the NCC that apply to individual open classification projects. 1.2 Determine scope of works and prescriptive requirements relevant to the NCC. 1.3 Access and interpret requirements of relevant Australian Standards referenced in the NCC.
2 Classify buildings.	2.1 Determine the nature of buildings according to use and arrangement. 2.2 Apply NCC criteria to determine the defined classification. 2.3 Identify and interpret NCC requirements for multiple classifications.
3 Apply solutions to construction problems.	3.1 Determine the range of NCC criteria required to ensure project compliance. 3.2 Identify alternative, compliant solutions for construction problems to comply with NCC Performance Requirements. 3.3 Meet the Performance Requirement of the NCC by applying a Performance Solution supported by one or a combination of the Assessment Methods. 3.4 Use a Deem-to-Satisfy (DTS) solution supported by one or a combination of Assessment Methods to meet NCC compliance. 3.5 Use a combination of Performance Solutions and DTS solutions to comply with the Performance Requirements of the NCC. 3.6 Identify and complete relevant documentation to meet Performance Requirements of the NCC. 3.7 Discuss compliance options with relevant construction personnel to ensure compliance with NCC Performance Requirements.

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| 4 | Apply fire protection requirements. | 4.1 | Determine fire resistance required for the construction of all classes and types of buildings. |
| | | 4.2 | Identify and apply NCC requirements with respect to passive and active fire protection to all classes and types of buildings. |
| | | 4.3 | Check existing buildings for compliance with passive and active fire protection requirements according to NCC requirements. |
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| 5 | Implement strategy to manage construction compliance. | 5.1 | Establish strategies to manage construction compliance of large, complex and high-rise buildings with the NCC. |
| | | 5.2 | Implement and coordinate the work of professionals involved in the development and management of the building process. |
| | | 5.3 | Seek effective design solutions for buildings of more than three storeys to meet the needs of clients and ensure compliance with the NCC. |
| | | 5.4 | Design and implement quality assurance processes to ensure effective and compliant management of the construction process. |
| | | 5.5 | Detect non-conforming building materials and products and manage the evidence of suitability as required in the NCC. |

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- communication skills to:
 - lead discussions to explore solutions to complex design problems
- technology skills to:
 - use digital tools and devices to communicate and collaborate effectively with others
 - use equipment and programs to access and extract information and develop relevant documentation.

Unit Mapping Information

Supersedes and is equivalent to CPCCB6001B Apply building codes and standards to the construction process for large building projects.

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>

Assessment Requirements for CPCBC6001 Apply building codes and standards to the construction process for large building projects

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by applying building codes and standards to one building project over three storeys, with below ground construction to meet the requirements of the National Construction Code (NCC).

In doing this, the candidate must:

- interpret and apply relevant General Requirements and Performance Requirements of the NCC to the building project
- apply compliance options and determine Assessment Methods to verify and support compliance with the Performance Requirements.

Knowledge Evidence

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

- government building and construction legislation
- building standards and codes
- the NCC:
 - building classification
 - Performance Requirements
 - Performance Solutions
 - Performance Hierarchy
 - Assessment Methods
 - evidence of suitability
 - Verification Methods
 - comparison with Deem-to-Satisfy provisions
 - Expert Judgement

- working drawings and specifications
- organisational quality assurance, policies, procedures and workplace safety requirements
- definitions and technical building terms
- design principles and the behaviour of structures under stress, strain, compression, bending or combined actions
- properties, characteristics and limitations of building materials, products and components
- below ground construction:
 - methods
 - structural sufficiency
 - water ingress
 - water proofing
 - work health and safety (WHS).

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:

- current and relevant government building Acts and regulations
- design brief drawings, project plans, construction schedules and specifications
- building and related industry codes, standards and manufacturer product information and materials specifications
- the NCC
- technology, applications and software systems for accessing, researching, extracting, analysing and presenting information, interpreting data and developing documents and reports.

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