CPCCBC4053
Apply building codes and standards to the construction process for Class 2 to 9 Type C buildings

Application

This unit of competency specifies the skills and knowledge required to access, interpret and apply relevant building codes and standards applicable to National Construction Code (NCC) Class 2 to 9 Type C building projects. It includes knowledge of the structure of the NCC, as well as the ability to access relevant information from the code as applicable to various building projects.

It applies to builders, site managers and related construction industry professionals responsible for ensuring compliance with building codes and standards related to Class 2 to 9 Type C construction projects.

This unit of competency is suitable for those using specialised knowledge to complete routine and non-routine tasks and using their own judgement to deal with predictable and sometimes unpredictable problems.

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 *CPCCWHS1001 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.

Prerequisite Unit

Nil.

Unit Sector

Construction.

Elements and Performance Criteria

1. Classify buildings.	1.1	Determine nature of building, its use and arrangement from construction plans and specifications.
	1.2	Access, read and interpret relevant Australian Standards for commercial building and construction projects.
	1.3	Define classification of building from NCC.
	1.4	Identify and interpret multiple classifications from NCC.

2. Determine construction compliance requirements from NCC.	2.1	Identify NCC Performance Requirements relevant to Class 2 to 9 Type C building projects.
	2.2	Determine range of criteria to ensure that construction methods comply with NCC Performance Requirements.
	2.3	Identify and document non-conforming construction methods with NCC Performance Requirements.
	2.4	Propose and discuss Performance Solution with design and building and construction professionals.
	2.5	Analyse and apply Assessment Methods to determine compliance with Performance Solution or Deem-to-Satisfy Solution.
	2.6	Meet the evidence of suitability requirements for building materials and products stated in the NCC.
	2.7	Complete relevant documentation to meet NCC requirements.
3. Determine fire protection requirements.	3.1	Identify NCC and other legislative requirements for passive and active fire control elements in buildings.
	3.2	Determine level of fire resistance required for the construction of various buildings.
	3.3	Check existing building for compliance with passive and active fire protection requirements.

Foundation Skills

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

- technology skills to:
  - use digital tools and devices to communicate and collaborate effectively with others
  - use equipment and programs to access, extract information and develop relevant documentation.

Unit Mapping Information

Supersedes and is equivalent to CPCCBC4001A Apply building codes and standards to the construction process for low rise building projects.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

Assessment Requirements for CPCCBC4053 Apply building codes and standards to the construction process for Class 2 to 9 Type C buildings

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by applying codes and standards to the construction process of two Type C building projects:

- one Class 2, 3 or 9
- one Class 5 to 8.

In doing this, the candidate must:

- determine the type of construction and the use of the building from construction plans and specifications and class of building using National Construction Code (NCC) classifications
- identify current building and construction codes and Australian Standards relevant to the building project
- apply NCC Performance Requirements in relation to the design and construction of the building:
    - structure
    - fire protection
    - access and egress
    - services and equipment
    - health and amenities
    - ancillary provisions
    - energy efficiency
- apply Performance Solutions to ensure that construction complies with Performance Requirements
- identify faults and problems and propose actions to rectify
- inspect a building to determine fire protection compliance with NCC and other legislative requirements.

Knowledge Evidence

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

- government building legislation, codes and standards
- the NCC:
    - Performance Requirements and General Requirements
    - Performance Solutions and Assessment Methods
    - Deem-to-Satisfy Solution (DTS)
    - Performance Hierarchy

    - evidence of suitability for building materials and products
    - classes of building and types of construction
- Assessment Methods stated in the NCC:
    - comparison with DTS provisions
    - evidence of suitability
    - Expert Judgement
    - Verification Method
- below ground construction:
    - methods
    - structural sufficiency
    - water ingress
    - water proofing
    - work health and safety (WHS)
- organisational policies and procedures, quality systems and best practice approaches
- workplace safety requirements
- properties, characteristics and limitations of specified building materials and components
- processes, procedures and techniques for construction of wide span and complex designed buildings
- basic commercial building design principles and the behaviour of structures under stress, strain, compression, bending or combined actions
- causes and implications of building defects related to failure of applying building codes and standards to residential and commercial buildings
- extent of remedial work required for various defects caused by inadequate design and application of building codes and practices
- environmental requirements and sustainability principles and concepts
- project plans, specifications and structural details
- construction terminology.

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:

- relevant government building and construction regulations
- current building and construction codes and standards
- NCC Volume 1
- construction drawings, site plans and specifications
- organisational policies and procedures and other quality documentation to undertake the performance criteria and assessment requirements
- digital technology devices, applications and software to source and document information.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad