



Australian Government

CPCCBS6116 Assess and advise on performance solutions for Class 2 to 9 buildings to three storeys

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.0.
- Supersedes and is not equivalent to CPCCBS6016 Assess and advise on performance-based solutions for buildings up to three storeys.
- New prerequisite requirement.

Application

This unit of competency specifies the skills and knowledge required to advise on the application of National Construction Code (NCC) requirements for performance solutions for buildings in Classes 2 to 9 up to three storeys and not exceeding 2,000 square metres in floor area, and to apply approved assessment methods to determine whether a proposed solution is compliant. It includes assessing architectural drawings and specifications for performance solutions and analysing them in relation to the relevant sections of the NCC and the Plumbing Code of Australia (PCA).

This unit is suitable for building surveyors who draw on their broad theoretical knowledge and technical skills to provide advice to architects and building designers on compliance requirements and options for performance solutions, or act in the statutory role with responsibility for assessing and certifying compliance of performance solutions. Under legislation building surveyors are responsible for ensuring that there is no conflict of interest between the two roles. Building surveyors cannot advise on, and then certify, the same performance solution.

This unit forms part of the licensing requirements for building surveying in some states and territories. Relevant state and territory regulatory authorities should be consulted to clarify these requirements.

Pre-requisite Unit

CPCCBS6102 Research and evaluate construction methods and materials for Class 2 to 9 buildings to three storeys.

Unit Sector

Building surveying

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Determine building surveying service requirements. | 1.1 Obtain architectural drawings and specifications and identify performance solutions to be advised on or certified. |
| | 1.2 Clarify requirement for performance solution in consultation with relevant persons. |
| | 1.3 Negotiate and confirm building surveying services to advise on or certify performance solutions and agree on timelines and costs where relevant. |
| 2 Analyse performance requirements of performance solution for building included in Classes 2 to 9. | 2.1 Assess performance solution for building to clarify its regulatory intent. |
| | 2.2 Identify performance requirements and confirm level of performance applied to the performance solution. |
| 3 Determine assessment requirements for performance solution for building included in Classes 2 to 9. | 3.1 Interpret NCC requirements and specifications for the material, form of construction or design of performance solution for building. |
| | 3.2 Determine NCC assessment methods that may be applied to performance solution. |
| | 3.3 Determine and negotiate requirements for services of technical experts qualified to provide evidence or expert judgement in relation to performance solution. |
| 4 Analyse performance solution for building included in Classes 2 to 9. | 4.1 Analyse compliance of performance solution in consultation with relevant persons. |
| | 4.2 Apply principles of fire safety engineering to compliance analysis of performance solution for fire safety. |
| | 4.3 Apply design principles to compliance analysis of performance solution for structural safety, health, amenity and sustainability. |
| | 4.4 Determine and record strengths and weaknesses of |

performance solution.

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| 5 Advise on performance solution. | 5.1 Explain assessment requirements for performance solution to client and invite and address questions. |
| | 5.2 Evaluate strengths and weaknesses of proposed performance solutions in consultation with client. |
| | 5.3 Develop optional performance solutions in consultation with client. |
| | 5.4 Assist client to select preferred performance solution. |
| | 5.5 Evaluate verification methods and evidence or expertise to support performance solution and explain findings to client. |
| | 5.6 Gather documentation for performance solution and prepare to submit for assessment. |
| 6 Assess compliance of performance solution. | |
| | 6.1 Review documentation for performance solution to ensure completeness and request further information as required. |
| | 6.2 Analyse and evaluate verification information supplied to support performance solution. |
| | 6.3 Analyse and evaluate evidence or expert judgment to support performance solution. |
| | 6.4 Determine and document compliance of performance solution according to regulatory and workplace requirements. |
| | 6.5 Process documentation and notify client of assessment outcome according to regulatory and workplace requirements. |

Foundation Skills

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

- numeracy skills to interpret ratios, rates and proportions when examining drawings and documentation.

Unit Mapping Information

Supersedes and is not equivalent to CPCCBS6016 Assess and advise on performance-based solutions for buildings up to three storeys.

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 CPCCBS6116 Assess and advise on performance solutions for Class 2 to 9 buildings to three storeys

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by assessing, advising on, and certifying as compliant a total of three performance solutions for projects that include the following 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 as defined by the NCC.

Of the three performance solutions:

- one must be a performance solution for fire safety
- two must be performance solutions for structural safety, health, amenity and sustainability.

Knowledge Evidence

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

- design principles that are applied when analysing the compliance of performance solutions for structural safety, health, amenity and sustainability:
 - access and egress, including access for people with a disability
 - damp and weatherproofing
 - energy efficiency
 - light and ventilation
 - room heights
 - sanitary and other facilities

- services and equipment
- sound transmission and insulation
- structural safety
- NCC classifications and definitions for buildings included in Classes 2 to 9:
 - building types
 - geographic and climate zones
- NCC requirements for assessing performance solutions relevant to buildings included in Classes 2 to 9
- principles of fire safety engineering relevant to buildings included in Classes 2 to 9:
 - characteristics of building materials in relation to fire
 - fire-modelling
 - fire science:
 - fire behaviour and dynamics
 - impact of fire on structures and materials
 - products of combustion
 - fire control strategies
 - fire retardants
 - fire detection technologies
 - fire suppression technologies
 - fire containment
 - human response to fire
 - interconnection of fire systems, including cause and effect matrix
 - interaction with other services
- project management strategies that ensure thorough and timely advice is delivered according to service level agreement
- regulatory intent of performance solutions
- scope and limitations of building surveyor role in relation to advising on or certifying performance solutions
- workplace requirements for assessing and advising on performance solutions for buildings included in Classes 2 to 9:
 - client service
 - documentation and reporting.

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, drawings, documentation and materials required to achieve the performance evidence.

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