



Australian Government

CPPBDN4002 Research and apply compliance requirements to technical construction documentation

Release: 1

CPPBDN4002 Research and apply compliance requirements to technical construction documentation

Modification History

Release 1. New unit.

This version first released with CPP Property Services Training Package Version 1.

Application

This unit of competency specifies the outcomes required to research and apply compliance requirements to building design documentation for residential, commercial and industrial buildings, as defined in the Building Code of Australia (BCA).

The unit applies to additions and renovations to a range of different types of new buildings and existing structures. It supports drafters who assist, and work under the supervision and instruction of an architect or building designer; and who take responsibility, at the level appropriate to their role, for ensuring that building design documentation complies with current and relevant legislation, codes and standards, including the National Construction Code (NCC) and local authority planning schemes.

Licensing, legislative, regulatory or certification requirements apply to building design drafting in some states. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

Pre-requisite Unit

Nil

Competency Field

Drafting

Unit Sector

Building design

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.

- | | |
|--|---|
| 1. Research building design project compliance | 1.1. <i>Legislation, codes and standards</i> relating to the compliance of specific building design project are accessed, and variations in requirements are interpreted |
|--|---|

	requirements.		and noted.
		1.2.	Compliance requirements for designs in different project locations and different conditions are researched, and variations in requirements are interpreted and noted.
		1.3.	Research findings are recorded, filed and regularly updated according to workplace procedures.
2.	Analyse and interpret implications of compliance requirements.	2.1.	Ambiguous and conflicting compliance requirements are clarified with relevant professionals.
		2.2.	Constraints placed on design options due to compliance requirements are identified and discussed with the designer.
		2.3.	Potential exemptions from compliance with relevant codes are investigated and discussed with designer, and appropriate course of action is noted.
		2.4.	Processes for obtaining an exemption are identified and actioned as required.
3.	Review and action compliance requirements.	3.1.	Technical construction documentation is reviewed for compliance with relevant legislation, codes and standards according to designer's instructions.
		3.2.	Non-compliance issues are noted and discussed with designer and required amendments are identified.
		3.3.	Amendments or modifications to plans and technical documentation are made to ensure compliance with relevant legislation, codes and standards.

Foundation Skills

This section describes core skills that are essential to performance and not explicit in the performance criteria. Employment skills essential to performance are explicit in the performance criteria of this unit of competency.

Skill	Performance feature
Learning skills to:	- access a range of resources, information and support, including the BCA, to assist in developing own understanding of compliance requirements relating to construction documentation - draw on experience in compliance research and apply to analysis of different building design projects.

- Numeracy skills to:
- interpret and apply information from technical drawings and reports, including ratios, scales and scale conversions.
- Oral communication skills to:
- participate in discussions in the workplace and with external specialists using specialised vocabulary relating to compliance.
- Reading skills to:
- understand specialised vocabulary and acronyms specific to technical documentation used in building design projects
 - use different reading approaches to locate specific compliance requirements in a range of resources, including the BCA.
- Writing skills to:
- make legible notes of discussions with colleagues and external specialists
 - use specialised vocabulary relating to building design projects.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

- Legislation*** must include:
- legislation and regulations relating to:
 - building
 - construction materials and methods
 - disability access
 - energy efficiency
 - environment
 - local authority planning schemes
 - work health and safety (WHS).
- Codes and standards*** must include:
- Australian standards, including standards for drawing:
 - AS1100.101 Technical drawing - General principles
 - AS1100.301 Technical drawing - Architectural drawing
 - AS1101.1 Graphic symbols for general engineering - Hydraulic and pneumatic systems
 - NCC.
- Compliance requirements*** must include:
- current Australian standards applicable to the building design
 - federal, state or territory, and local authority legislation and regulations and planning schemes applicable to the building design
 - NCC.
- Constraints*** must
- reference to:

include:

- local authority planning scheme relevant to the applicable building design
- project brief
- sections of the BCA relevant to the applicable building design.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPBDN4002 Research and apply compliance requirements to technical construction documentation

Modification History

Release 1. New unit.

This version first released with CPP Property Services Training Package Version 1.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must be able to provide evidence of the ability to apply compliance requirements to technical construction documentation for the following three different building projects, as defined in the Building Code of Australia (BCA). At least one of the building design projects must include a Class 10 component:

- one Class 1 building
- one Class 2 building
- one building selected from Classes 3 to 9.

At least one of the above building projects must be two storeys and one building project must be three storeys or more.

In each of the projects, the person must:

- develop a body of current research findings relating to the codes and standards affecting compliance of building designs
- analyse compliance requirements in relation to client requests
- review compliance of drawings, including those from other disciplines such as land surveyors, and hydraulic and fire engineers
- amend technical construction documents to ensure compliance with codes and standards
- document and store research findings.

Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate knowledge of the sections of the BCA relevant to the classes and types of buildings specified in the performance evidence, including knowledge of the following:

- compliance requirements relating to specific building design projects, including:
 - Australian standards for drawing applicable to the building projects
 - local authority planning schemes
 - National Construction Code (NCC) requirements
 - state planning policies
 - state building codes

- disability access requirements
- environmental and sustainability requirements, including:
 - energy efficiency
 - fire resistance, including resistance to bushfire attack
 - sound
 - flood
 - ventilation
- building designers' duty of care to ensure quality and safety of designs
- legislation as listed in the range of conditions and as relevant to the building project
- work health and safety requirements relevant to the building projects specified in the performance evidence.

Assessment Conditions

Assessment must be conducted in the workplace or a close simulation of the workplace.

Suitable assessment of performance requires:

- equipment:
 - computer with internet access and building information modelling (BIM)-capable building design software and business software currently used in drafting, architectural and building design practice
 - telephone
- materials:
 - technical reports
 - working drawings and plans
- contingencies:
 - implications of non-compliance
 - implications of preparing and submitting to relevant authority insufficient or inaccurate documentation
- specifications – access to:
 - NCC and Australian standards
 - legislation, regulations, codes and other relevant compliance documentation relating to each building design project specified in the performance evidence
 - manufacturer product specifications on building materials and methods
 - project brief for the three building classes and types specified in the performance evidence, including specifications relating to:
 - building envelopes
 - services
 - structural components
- relationships with team members and supervisor:
 - tasks may be completed as an individual and as a team member, under the direction of an architect, building designer or other relevant person

- relationship with client:
 - limited liaison with the client is required and only under direction of the architect or building designer.

Assessor requirements

As a minimum, assessors must satisfy SNR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>