



Australian Government

CPPCMN4008 Read plans, drawings and specifications for residential buildings

Release: 1

CPPCMN4008 Read plans, drawings and specifications for residential buildings

Modification History

Release 1.

Replaces superseded equivalent CPPCMN4008A Read and extract information from plans, drawings and specifications for residential buildings.

This version first released with CPP Property Services Training Package Version 5.

Application

This unit of competency specifies the outcomes required to read and extract information from different types of plans, building drawings and specifications for residential buildings.

The unit supports workers in the property industry who are required to read and extract routine information from a variety of plans and drawings associated with residential buildings. It applies to real estate agents, property managers, strata managers, Nationwide House Energy Rating Scheme (NatHERS) assessors, home sustainability assessors and facility managers.

Licensing, legislative, regulatory or certification requirements apply to this unit in some States and Territories. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

Pre-requisite Unit

Nil

Competency Field

Common

Unit Sector

Property services

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.

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|----------------------------------|---|
| 1. Identify and review plans and | 1.1. Main <i>types of plans and drawings</i> for <i>residential buildings</i> are identified. |
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drawings.	1.2.	Purpose of different types of plans and drawings are identified.
	1.3.	Key features of each type of plan and drawing are identified.
2. Check amendments to plans and drawings.	2.1.	Title panel is checked to verify latest amendment to plans and drawings.
	2.2.	Amendments to specifications are checked to ensure currency of information.
3. Identify symbols, terms, abbreviations and shading used in plans and drawings.	3.1.	Symbols used in plans and drawings are identified.
	3.2.	Abbreviations used in plans and drawings are identified.
	3.3.	Colouring and shading used in plans and drawings are identified.
	3.4.	Building and construction terms used in plans and drawings are identified.
4. Locate and identify key features on a site plan.	4.1.	Site is identified from location drawings.
	4.2.	True north and building orientation are identified from details provided on site plan.
	4.3.	Key features of site plan are identified.
5. Extract data from plans, drawings and specifications.	5.1.	Key building features are identified in relevant plans and drawings.
	5.2.	Data on key building features is extracted from relevant plans, drawings and specifications.
	5.3.	Building codes or standards identified in specifications are identified.
	5.4.	Key features of products included in specifications are identified.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

Skill	Performance feature
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- Learning skills to:
- maintain current knowledge of types and application of plans, drawings and specifications for residential buildings.
- Numeracy skills to:
- convert numerical values and scales shown on plans, drawings and specifications for buildings.
- Reading skills to:
- read and interpret information about agency practices, industry conduct standards, and employment conditions.
- Writing skills to:
- record information extracted during review.
- Technology skills to:
- use computerised databases to locate relevant plans, drawings and specifications for residential buildings.

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.

Types of plans and drawings must include:

- drawings:
 - details
 - elevation
 - ground plans
 - layout drawings
- plans:
 - heritage and conservation overlays
 - landscaping and vegetation
 - locality
 - lot and common property survey plans
 - sites
 - strata plans
 - survey plans
- services drawings:
 - drainage
 - ducts
 - piping
 - vertical section
 - waste disposal
 - wiring
- sketches.

Residential buildings

- any building categorised as Class 1, 2, 4 and 10a of the Building Code of Australia or in accordance with jurisdictional

must include:

requirements.

Key features of each type of plan and drawing must include at least four of the following:

- certification
- compatibility
- construction
- dimensions
- legend
- location
- orientation
- quantities of materials
- scale
- sizes
- types of products or services.

Specifications must include at least two of the following:

- levels and survey information
- material technical data
- materials lists
- performance data
- schedules of quantities
- stress, load and bearing calculations.

Key features of site plan must include:

- access and egress
- common property
- contours and slopes
- drainage lines
- easements
- environmental and heritage overlays
- existing dwellings, buildings or other structures
- location and situation
- major geological and topographical features
- orientation
- paving
- retaining walls
- scale
- service connection points
- set backs
- stormwater disposal
- trees and other vegetation.

Data on key building features must include:

- common property
- dimensions
- location
- materials
- ratings
- standards.

Unit Mapping Information

CPPCMN4008A Read and extract information from plans, drawings and specifications for residential buildings

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 CPPCMN4008 Read plans, drawings and specifications for residential buildings

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria, foundation skills and range of conditions of this unit.

The person must read and extract information from different types of plans, building drawings and specifications for four different residential buildings.

The person must also source the plans, building drawings and specifications relating to each of the above buildings, and identify the information needed to respond to three routine workplace requests for information on each building.

In doing the above, the person must:

- identify different types of plans and drawings for residential buildings and their functions
- read and interpret plans, drawings and specifications for each residential building, including identifying key features, levels, contours, sections, service entry points, and site features
- check amendments to plans and drawings for each residential building
- identify symbols, terms and abbreviations used in the plans and drawings.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- building drawings, including:
 - drawing perspectives
 - features
 - scale
 - symbols, terms and abbreviations used
 - types of building drawings and their respective purposes
- plans relevant to residential buildings:
 - heritage and conservation overlays
 - landscaping and vegetation
 - locality
 - lot and common property survey plan

- sites
- strata plan
- survey plan
- key requirements of federal, state or territory building and construction codes, standards and regulations relating to:
 - residential building materials
 - residential building styles.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - computer system to access online databases of residential building plans and drawings
- specifications:
 - plans, drawings and specifications for different styles of residential buildings
 - relevant codes, standards and regulations relating to the construction of residential buildings.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the *Standards for Registered Training Organisations* (RTOs) current at the time of assessment.

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