



Australian Government

CPPBDN4102 Analyse building design drawings

Release: 1

CPPBDN4102 Analyse building design drawings

Modification History

Release 1 This version first released with CPP Property Services Training Package Release 11.0.

Supersedes and is equivalent to CPPBDN4009 Analyse building design drawings and review findings. Title changed to clarify unit outcome.

Application

This unit specifies the skills and knowledge required to read, interpret and analyse building design drawings for Class 1 and 10 buildings, as defined in the National Construction Code (NCC). It covers interpreting construction industry conventions for drawings and analysing drawings for different projects to identify design and technical features.

The unit applies to drafters who work under the supervision and instruction of building designers or architects and use specialised knowledge to complete routine and non-routine tasks and deal with predictable and sometimes unpredictable drafting problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Building Design

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 Interpret drawing conventions. | 1.1 Identify sources and review types of drawings used in building design projects. |
| | 1.2 Identify and confirm industry standard format and content requirements for building design drawings. |
| | 1.3 Identify and review types of views used in building design drawings. |

- 1.4 Identify and review technical drawing conventions used in building design drawings.
 - 1.5 Identify and review architectural conventions used in building design drawings.
 - 1.6 Identify and review notations used in building design drawings.
- 2 Analyse building design drawings.
 - 2.1 Determine key features of site plans for building design project.
 - 2.2 Determine key features of floor plans and sub-floor plans in project drawings.
 - 2.3 Determine key features of elevations of each aspect of building in drawings.
 - 2.4 Analyse sections of buildings to determine construction methods and features of internal design and finishes.
 - 2.5 Identify anomalies or contradictions in building design drawings and seek advice from relevant personnel.
- 3 Analyse drawings from relevant external consultants.
 - 3.1 Identify external consultants contributing to building design drawings.
 - 3.2 Interpret land survey drawings to identify site topographical features.
 - 3.3 Interpret structural engineering drawings to identify construction methods.
 - 3.4 Examine drawings and reports from relevant disciplines to determine services layout.
 - 3.5 Confirm consultant recommendations for building design project from drawings and drawing notations.
 - 3.6 Identify anomalies or contradictions in building design drawings and seek advice from relevant personnel.

Foundation Skills

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

- reading skills to interpret specialised vocabulary, abbreviations and acronyms specific to building design work, including terms used by external consultants
- writing skills to make concise and technically accurate notes from drawings and reports
- numeracy skills to:
 - interpret and check the accuracy of numerical information in drawings and reports, including dimensions, ratios, scales and scale conversions
 - use mathematical language to interpret drawings.

Unit Mapping Information

Supersedes and is equivalent to CPPBDN4009 Analyse building design drawings and review findings. Title changed to clarify unit outcome.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPBDN4102 Analyse building design drawings

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by analysing complete sets of working drawings to identify design and technical features for the following buildings classified according to the National Construction Code (NCC):

- a single-storey Class 1 building with one Class 10 building
- a two-storey Class 1 building.

Knowledge Evidence

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

- NCC building classifications
- construction techniques, processes and materials and their application in drawings for Class 1 and 10 buildings
- construction terminology used in building design drawings
- conventions and formats used for building design drawings:
 - dimensioning
 - orientation
 - representations of doors, windows, fittings, fixtures and materials
- conventions and formats used for general technical drawings:
 - abbreviations
 - dimensioning lines
 - gradients
 - levels
 - scales
 - symbols
- key requirements of drawing standards:
 - AS 1100.101 Technical drawing - General principles
 - AS 1100.301 Technical drawing - Architectural drawing

- drawings relevant to building design projects:
 - plan views
 - elevation views
 - section views
 - 3-D views
 - detail views
 - specifications
- key features of site plans:
 - site boundaries and dimensions
 - locations and orientations of buildings
 - locations of services, retaining walls, fences, driveways and walkways
 - setback requirements
 - easements
 - topographical data.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations. Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed. This includes access to:

- computer with internet and relevant software
- relevant regulations, codes and standards
- working drawings for building projects.

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