



Australian Government

CPPBDN4012 Provide support to project building designers

Release: 1

CPPBDN4012 Provide support to project building designers

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 provide a range of support to project building designers.

It covers attending and supporting client and stakeholder meetings, undertaking site visits, using industry-approved software, and liaising with relevant authorities on behalf of the architect or building designer responsible for the overall project design.

The unit supports drafters who assist and work under the supervision and instruction of architects or building designers and engage in a range of consultation processes as part of the building design process.

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. Participate in client communications.

- 1.1. Client consultations are attended and detailed ***notes*** are taken to support the role of the designer or architect according to workplace requirements.

- 1.2. Client preferences and proposed building outcomes are represented in line with designer's instructions using **building design software**.
 - 1.3. Clients are consulted independently according to designer's instructions, as required.
 - 1.4. Records of written and verbal correspondence with clients are checked for accuracy, kept up-to-date, filed and stored for access by designer or architect in compliance with relevant legislation and standards.
2. Assist designer with project tasks.
 - 2.1. Concept plans are drafted under the supervision and instruction of the designer and according to client brief.
 - 2.2. Research into materials, mechanical systems and construction methods is conducted and documented as required, to assist in developing appropriate and compliant building design solutions.
 - 2.3. Accurate drawings are completed in line with **compliance requirements** to reflect client specifications and any requested variations.
 - 2.4. Project cost estimates and material quantities are identified and calculated with reference to plans and drawings as required.
3. Liaise with others to support the project.
 - 3.1. Consultation meetings with building design project contractors are attended and detailed notes are taken to support the designer.
 - 3.2. Relevant authorities are consulted and information is obtained to support the timely completion and compliance of the project.
 - 3.3. Technical experts are consulted for specialist advice, and information is noted and provided to the designer to assist in design development.
 - 3.4. Sales representatives and manufacturers are consulted regarding products, specifications and costings, and information is collated and filed according to workplace procedures.

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:	- independently access a range of information sources to assist in providing accurate and relevant support to the building designer - interpret research information relating to materials and products.
Numeracy skills to:	- interpret and apply numerical information from technical documentation - estimate project costs and material quantities.
Oral communication skills to:	- ask technical questions concerning materials, systems and construction methods - consult with manufacturers and make enquiries that assist with providing support to the building designer.
Reading skills to:	use different reading strategies to identify relevant information located through research into materials and systems.
Writing skills to:	- make legible notes of discussions with colleagues and external specialists in a range of agreed formats - 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.

Notes must cover:	- agreed actions - variations to drawings.
Building design software must include:	current industry-standard building information modelling (BIM)-capable software.
Compliance requirements must include:	- current Australian standards applicable to the building design - federal, state or territory, and local authority legislation and regulations applicable to the building design - National Construction Code.

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 CPPBDN4012 Provide support to project building designers

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 provide support to the architect or building designer 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.

For each of the building projects, the person must provide evidence of:

- using industry-approved software to vary drawings and specifications during client consultations as support to the designer
- maintaining accurate and up-to-date client communications in an agreed format
- consulting with a range of technical experts to gather data and reports for the designer to assist in building design decisions
- liaising with sales representatives and manufacturers to gather relevant product information and costings
- documenting and storing accurate notes from meetings between the architect or building designer, clients, construction contractors and other relevant personnel.

Knowledge Evidence

A person demonstrating competency in this unit must be able to demonstrate knowledge of the following, as they relate to the three classes and types of building projects specified in the performance evidence:

- building construction techniques and processes
- building materials and their application in the different building projects specified in the performance evidence
- compliance requirements and regulatory limitations relating to building design projects, including:

- Australian standards
- National Construction Code
- state building codes
- design terminology used by architects and building designers when liaising with clients and other personnel
- environmental and sustainability requirements, including:
 - energy efficiency
 - fire resistance, including resistance to bushfire attack
- structural principles relevant to the construction of buildings specified in the performance evidence
- techniques for reading plans and drawings including those from other disciplines, such as land surveys, hydraulics and fire engineering.

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
- 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:
 - liaison with the client is limited and only as directed by the architect or building designer
- specifications – access to:
 - applicable codes and standards
 - design drawings and specifications.

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>