



**Australian Government**

# **CPP50911 Diploma of Building Design**

**Release 3**

# CPP50911 Diploma of Building Design

## Modification History

Version Comment

- 1 Revised qualification deemed equivalent
- 2 Replacement of imported elective unit with CPP07 native unit:
  - CPPDBN5017A Produce 2-D drawings for building design projects using CAD software, replaced CPCPCM4003A Produce 2-D architectural drawings using CAD softwareUpdate of imported Group B elective units:
  - BSBCUS501C Manage quality customer service
  - BSBWHS503A Contribute to the systematic management of WHS risk
- 3 Update superseded imported equivalent units from elective list:
  - BSBCUS501C to BSBCUS501
  - BSBWHS503A to BSBWHS503
  - BSBWRT401A to BSBWRT401
  - LMFID5014A to MSFID5014This version released with CPP07 Version 14.4

## Description

This qualification applies to building designers who undertake building design projects covered by the Building Code of Australia (BCA), except Construction Type A buildings.

Building designers may specialise in residential projects, including new buildings, heritage restorations and additions or renovations; or they may also undertake commercial and industrial projects, such as factories, motels, offices, restaurants, retail or service outlets and warehouses.

## Pathways Information

Not applicable.

## **Licensing/Regulatory Information**

Check with relevant state and territory licensing and regulatory authorities. State and territory jurisdictions may have different regulatory requirements.

## **Entry Requirements**

Not applicable.

## Employability Skills Summary

Employability skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> <li>• listen to and communicate clearly with colleagues, suppliers and contractors</li> <li>• participate in meetings with clients, contractors and other professionals</li> <li>• explain compliance requirements to clients</li> <li>• write letters and reports to formalise agreements or clarify project information</li> <li>• initiate and run meetings with lead contractor and other service contractors</li> <li>• use industry-specific definitions, language symbols and terminology</li> <li>• negotiate changes to designs with clients and planners</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• develop constructive and cooperative working relationships with project team members, colleagues, suppliers and clients</li> <li>• work with others to plan, coordinate and complete tasks</li> </ul>
Problem solving	<ul style="list-style-type: none"> <li>• coordinate input of expert advice where appropriate</li> <li>• develop innovative and affordable sustainable design solutions</li> <li>• maintain effective relationships with industry professionals</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• conduct cost-benefit analysis of design options</li> <li>• negotiate solutions to design conflicts</li> <li>• propose creative design solutions to issues arising on site</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• analyse and interpret complex technical compliance requirements and apply these to different projects</li> <li>• devise and negotiate solutions to planning and building permit issues</li> <li>• conduct cost-benefit analysis of design options</li> <li>• perform complex calculations, such as structural requirements and load effects of force and movement on structural elements of buildings</li> <li>• identify site risks and building constraints, and produce design solutions</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• produce aesthetic, cost-effective, compliant and buildable designs within given timeframes</li> <li>• develop personal methodologies for ensuring project quality and for incorporating process improvements</li> <li>• manage detailed input to concurrent design projects at different stages of the process and with diverse sets of regulatory requirements</li> <li>• integrate safe building practices into the design of a building</li> <li>• implement energy conservation strategies and cost-saving practices</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• apply structural principles and construction technology to the design of a built form</li> </ul>

<b>Employability skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
	<ul style="list-style-type: none"> <li>• plan the building design</li> <li>• set up systems and checklists for ensuring a methodical approach to design projects</li> <li>• gather documentation required for design projects, including plans, specifications, drawings, legislation, codes and standards</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• read and interpret drawings, including architectural, structural, mechanical, hydraulic and electrical drawings</li> <li>• read manuals and marketing information about new technologies, products and systems</li> <li>• use computer software to produce building designs, manage project participation and conduct general personal business administration</li> <li>• use relevant tools and equipment, such as measuring and surveying tools and calculators</li> </ul>

Due to the high proportion of electives required by this qualification, the industry/enterprise requirements described above for each employability skill are representative of the property services industry in general and may not reflect specific job roles. Learning and assessment strategies for this qualification should be based on the requirements of the units of competency for this qualification.

This table is a summary of employability skills that are typical of this qualification and should not be interpreted as definitive.

## Packaging Rules

To achieve this qualification, the candidate must demonstrate competency in:

- 17 units of competency:
  - 7 core units
  - 10 elective units.

The elective units are to be chosen as follows:

- all 10 units from Group A

### OR

- a choice of elective units making up the required 10, consisting of 6 or more units from Group A and:
  - between 1 and 4 units from Group B
  - up to 2 units from qualifications in CPP07 or another current Training Package or accredited course, provided the integrity of the AQF alignment is ensured and they contribute to a valid, industry-supported vocational outcome
  - CPPBDN8007A Manage the design of Type A constructions from CPP80113

Graduate Certificate in Building Design, in order to accept projects in jurisdictions where there is no licensing limitation on the types of construction projects to which building designers may contribute.

### Core units

CPCCOHS2001A	Apply OHS requirements, policies and procedures in the construction industry
CPPBDN5001A	Research construction materials and methods for small-scale residential building design projects
CPPBDN5003A	Research compliance requirements for small-scale residential building design projects
CPPBDN5005A	Recommend sustainability solutions for small-scale building design projects
CPPBDN5008A	Develop concepts for small-scale building design projects and finalise solutions with clients
CPPBDN5009A	Produce compliant client-approved designs for small-scale building design projects
CPPBDN5011A	Produce compliant client-approved working drawings for small-scale residential buildings

**Group A elective units**

CPCCBC4015A	Prepare specifications for all construction works
CPCCSV5013A	Apply principles of energy efficient design to buildings
CPPBDN5002A	Research construction materials and methods for small-scale non-residential building design projects
CPPBDN5004A	Research compliance requirements for small-scale non-residential building design projects
CPPBDN5006A	Consult with clients to produce approved small-scale building project design briefs
CPPBDN5007A	Inspect and analyse sites and produce measured drawings for small-scale building design projects
CPPBDN5010A	Negotiate and finalise planning approval for small-scale building design projects
CPPBDN5012A	Produce and present 3-D models of small-scale building designs
CPPBDN5013A	Develop and collaborate on building information models for small-scale building design projects
CPPBDN5014A	Contribute to construction and building design project finalisation processes
CPPBDN5015A	Produce compliant client-approved working drawings for non-residential buildings
CPPBDN5016A	Produce and present rendered animations of 3-D models of small-scale building designs
CPPBDN5017A	Produce 2-D drawings for building design projects using CAD software

## Group B elective units

BSBCUS501	Manage quality customer service
BSBWHS503	Contribute to the systematic management of WHS risk
BSBWRT401	Write complex documents
CPCCBBC4025A	Manage personal work priorities and professional development
CPCCBBC5005A	Select and manage building and construction contractors
CPPACC5006A	Apply ergonomic principles to accessible building design and fitout
CPPACC5011A	Prepare a concept design for accessible building work
CPPACC5012A	Prepare a design brief for accessible building work
CPPCMN4002B	Implement and monitor environmentally sustainable work practices
HLTHIR403C	Work effectively with culturally diverse clients and co-workers
MSFID5014	Use CAD applications to complete models and documentation for interior design projects

## Custom Content Section

Not applicable.