



Australian Government

CPC40110 Certificate IV in Building and Construction (Building)

Release 5

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Modification History

Revised qualification deemed equivalent to CPC40110

- two new sustainability elective units added:
 - CPCSUS4002A Use building science principles to construct energy efficient buildings
 - CPCSUS4003A Maximise energy efficiency through applied trade skills
- imported elective units updated
- minor editorial changes to elective packaging rules, without changing intent
- Version 5 of this qualification replaces superseded equivalent elective unit CPCCOHS1001A with CPCCWHS1001 Prepare to work safely in the construction industry

Description

This qualification is designed to meet the needs of builders and managers of small to medium-sized building businesses.

The builder may also be the appropriately licensed person with responsibility under the relevant building licensing authority in the State or Territory. Builder licensing varies across States and Territories and additional requirements to attainment of this qualification may be required.

Occupational titles may include:

- Builder
- Construction manager.

The qualification has core unit of competency requirements that cover common skills for the construction industry.

The construction industry strongly affirms that training and assessment leading to recognition of skills must be undertaken in a real or very closely simulated workplace environment and this qualification requires all units of competency to be delivered in this context.

Completion of the general induction training program specified by the National Code of Practice for Induction Training for Construction Work (ASCC 2007) is required before entering a construction work site. Achievement of unit CPCCOHS1001A covers this requirement.

Additional units of competency may be required to meet builder registration requirements in various States and Territories.

Pathways Information

This qualification is suitable for an Australian Apprenticeship pathway.

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**
- Communicates work health and safety (WHS) policies and procedures
 - Participates in ensuring compliance with standards, regulations and policies
 - Communicates effectively with a range of relevant parties through a range of media
 - Establishes on-site communication systems
 - Facilitates site meetings
 - Articulates complex ideas clearly
 - Interprets a range of complex and technical documents, including relevant regulatory, legislative and licensing requirements, codes and standards, plans, drawings and specifications, schedules, site files, contracts, orders, development approvals and organisational policies and procedures
 - Analyses and evaluates reports and reference materials
 - Understands relevant definitions, terminology, symbols and language
 - Maintains and checks logs, records and documents
 - Prepares a range of documents, including construction contracts, plans, sketches and drawings and specifications, reports, tenders, schedules, building applications and submissions and file notes
 - Reports and records hazards, risks and project costs
 - Negotiates conflict and dispute resolution
 - Analyses a range of data, including company and stakeholder resource consumption and waste product volumes
- Teamwork**
- Conducts briefings with team members
 - Coordinates a range of team members and activities
 - Keeps team informed of work practices, quality requirements and required actions
 - Relates positively to fellow workers and the management team
 - Relates to people from diverse social, cultural and ethnic backgrounds and with varying physical and mental abilities
 - Seeks expert advice where appropriate
 - Works collaboratively with relevant stakeholders
 - Understands various stakeholders' roles
 - Supervises and checks others' work, monitors work processes and ensures safe work practices
- Problem solving**
- Assesses structural integrity of residential and commercial low rise

buildings

- Performs various calculations relating to rise and fall amounts, estimating resource acquisition and costs; measuring levels, heights and gradients; structural analysis; drawing dimensions; setting out of construction projects; comparisons of alternative water management systems; waste management minimisation strategies; and thermal efficiency, rated capacity and working load limits
- Examines tools and equipment prior to use for damage, missing components or other defects
- Identifies and rectifies faults
- Responds effectively to hazards, risks and emergencies
- Analyses problems and applies appropriate remedial solutions
- Resolves business disputes
- Deals with customer complaints and disputes
- Deals with contract variations
- Takes action to minimise contract penalties
- Analyses rejected building applications and determines the likely success of an appeal or a resubmission
- Devises approaches, implements and reflects on environmental and water, energy and resource efficiency management policies and procedures relevant to work site to improve environmental sustainability, and shares alternative approaches as required

Initiative and enterprise

- Evaluates properties of construction materials and selects appropriate materials based on evaluation
- Develops compliant, alternative solutions to construction problems
- Assesses thermal efficiency of buildings and reviews design solutions for effectiveness and compliance
- Identifies opportunities for improved water management
- Evaluates effective strategies for insulating structures
- Develops waste management strategies and dispute resolution procedures
- Identifies environmental and resource efficiency improvements, applies knowledge about resource use to organisational activities and customer service, and develops resource efficiency tools

Planning and organising

- Plans and coordinates various work operations
- Prepares project schedules
- Participates in effective implementation of organisation's operational plans
- Plans and organises on-site activities and implements procedures associated with building and construction work
- Identifies and organises resource requirements and obtains supply

	information
	<ul style="list-style-type: none">• Supervises various administrative and work processes, including claims and payments, insurance coverage, payroll systems and tax systems• Collects, analyses and organises workplace information and data• Plans and organises inspections• Organises testing of construction materials to ensure suitability
Self management	<ul style="list-style-type: none">• Manages own performance to ensure required levels of service standards, work quality and professional competence• Manages work priorities and professional development• Uses feedback to improve own performance• Organises and completes daily work activities
Learning	<ul style="list-style-type: none">• Is open to new ideas and techniques• Seeks feedback on personal performance• Uses information effectively to improve work performance• Learns from colleagues as part of effective teamwork
Technology	<ul style="list-style-type: none">• Operates office equipment• Uses computer equipment and relevant software• Uses cameras• Assesses new and emerging technologies for application to construction processes• Uses a range of tools and equipment, including technical instruments and surveying equipment• Maintains tools and equipment as required• Uses technology to improve efficiency and effectiveness of managing work

Packaging Rules

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

- 16 units of competency:
 - 13 core units
 - 3 elective units.

The elective units must be selected as follows:

- all three elective units may be selected from the elective units listed below
- two of the three elective units may be selected from Certificate III, Certificate IV or Diploma from another endorsed Training Package or from CPC08, provided that at least one unit is from Certificate IV and the industry context is maintained.

Some units in this qualification may have prerequisite requirements, which must be met when packaging the qualification. Users are referred to the list of CPC08 units with prerequisite unit requirements available in this Training Package for this purpose.

Core units

BSBSMB406A	Manage small business finances
CPCCBC4001A	Apply building codes and standards to the construction process for low rise building projects
CPCCBC4002A	Manage occupational health and safety in the building and construction workplace
CPCCBC4003A	Select and prepare a construction contract
CPCCBC4004A	Identify and produce estimated costs for building and construction projects
CPCCBC4005A	Produce labour and material schedules for ordering
CPCCBC4006B	Select, procure and store construction materials for low rise projects
CPCCBC4007A	Plan building or construction work
CPCCBC4008B	Conduct on-site supervision of building and construction projects
CPCCBC4009B	Apply legal requirements to building and construction projects
CPCCBC4010B	Apply structural principles to residential low rise constructions
CPCCBC4011B	Apply structural principles to commercial low rise constructions
CPCCBC4012B	Read and interpret plans and specifications

Elective units

BSBWOR402A	Promote team effectiveness
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BSBITU201A	Produce simple word processed documents
BSBITU202A	Create and use spreadsheets
BSBITU301A	Create and use databases
BSBMGT403A	Implement continuous improvement
BSBPMG411A	Apply project quality management techniques
BSBPMG415A	Apply project risk management techniques
BSBPMG522A	Undertake project work
BSBSMB401A	Establish legal and risk management requirements of small business
BSBSMB402A	Plan small business finances
BSBSMB404A	Undertake small business planning
BSBSMB405B	Monitor and manage small business operations
BSBWOR401A	Establish effective workplace relationships
BSBWRT401A	Write complex documents
CPCCBC4013A	Prepare and evaluate tender documentation
CPCCBC4014A	Prepare simple building sketches and drawings
CPCCBC4015A	Prepare specifications for all construction works
CPCCBC4016A	Administer a construction contract
CPCCBC4017A	Arrange resources and prepare for the building or construction project
CPCCBC4018A	Apply site surveys and set-out procedures to building and construction projects
CPCCBC4019A	Apply sustainable building design principles to water management systems
CPCCBC4020A	Build thermally efficient and sustainable structures
CPCCBC4021A	Minimise waste on the building and construction site
CPCCBC4022A	Supervise tilt-up work
CPCCBC4024A	Resolve business disputes

CPCCBC4025A	Manage personal work priorities and professional development
CPCCBC4026A	Arrange building applications and approvals
CPCCBC4051A	Supervise asbestos removal
CPCCWHS1001	Prepare to work safely in the construction industry
CPCSUS4001A	Implement and monitor environmentally sustainable work practices
CPCSUS4002A	Use building science principles to construct energy efficient buildings
CPCSUS4003A	Maximise energy efficiency through applied trade skills
HLTHIR403C	Work effectively with culturally diverse clients and co-workers
TAEDEL402A	Plan, organise and facilitate learning in the workplace

Custom Content Section

Not applicable.