

Qualification details

Title	New Zealand Diploma in Construction (Level 6) with strands in Construction Management and Quantity Surveying		
Version	1	Qualification type	Diploma
Level	6	Credits	240
NZSCED	040303	Architecture and Building > Building > Building Construction Management	
Qualification developer	Building and Construction Industry Training Organisation		
Next review	June 2020		
Approval date	January 2015		
Strategic purpose statement	<p>This qualification is for people wishing to work as construction managers or quantity surveyors, and also provides recognition of knowledge and skills for those already working in the roles.</p> <p>This qualification provides the construction industry with qualified people who have the essential theoretical knowledge, skills and aptitude required to enter employment in construction management or quantity surveying on residential and commercial building projects through all stages to completion under the supervision of a more experienced practitioner relevant to the graduate's area of expertise.</p> <p>The qualification will provide employers and consumers with the confidence that construction and building projects are being effectively planned and organised and with sound financial management that meet with the requirements of New Zealand legislation, Codes of Practice, and New Zealand and Australian Standards.</p> <p>The strands acknowledge the different knowledge and skills involved in either construction management or quantity surveying, and allows the development of skills specific to enable people to work in either of these professions.</p> <p>This diploma is suitable for candidates from a variety of educational backgrounds including school leavers.</p> <p>The Construction Management strand also supports the Ministry of Business, Innovation & Employment Licensed Building Practitioner Scheme, providing eligibility for a streamlined application process towards Site License Classes 1, 2 and 3 in accordance with information on the MBIE website: http://www.business.govt.nz/lbp.</p>		

Outcome Statement	Graduate profile	<p>Graduates of this qualification will, in the workplace, be able to:</p> <ul style="list-style-type: none"> - Understand and apply knowledge of the roles, standard documentation and administrative requirements of the construction industry, and communicate in a construction related context. - Operate within the statutory and regulatory environment as it applies to the construction and design of buildings. - Manage construction and resource allocation, programming and construction activities, for a medium building and for medium and large buildings, understand the principles related to the provision of services. - Evaluate and select materials and finishes for building projects, taking into account environmental aspects of the design and construction techniques to be used. - Apply a broad knowledge of the structure and structural principles for building work including foundations, substructure, the envelope and the interior, and passive fire protection systems for medium and large buildings. - Analyse, select and administer construction contracts including the preparation of a tender submission from trade sections and other financial components and value building works up to and including final account statements. - Work in a team and identify organisational principles in a construction and consulting environment. <p>Construction Management strand graduates will also be able to:</p> <ul style="list-style-type: none"> - Develop construction plans and methodologies, for medium buildings. - Create technical sketches to communicate information relevant to the construction project. - Assist with general construction management tasks. <p>Quantity Surveying strand graduates will also be able to:</p> <ul style="list-style-type: none"> - Analyse and present feasibility information and preliminary estimates to clients. - Assemble quantity surveying documentation relevant to specialist and specific trade sections and measure a schedule of quantities for a small building of an individual trade section including services. - Collate all priced components into a tender submission for medium and large buildings using tender process knowledge.
	Education pathway	<p>This diploma is suitable for candidates from a variety of educational backgrounds including school leavers. There are no specific qualification pathways leading to this Diploma, however achievement of NCEA Level 2 standards from the Construction and Infrastructure Vocational Pathways may be useful.</p> <p>This Diploma may build on from trade-level qualifications in any construction related trade, or the New Zealand Certificate in Construction Related Trades (Supervisor) (Level 4) [Ref: 2381],</p>

		<p>or the New Zealand Certificate in Construction Related Trades (Main Contract Supervision) (Level 5) [Ref: 2382].</p> <p>Graduates of this qualification may wish to undertake further tertiary study at diploma or degree level in the field of Construction Management or Quantity Surveying.</p>
	<p>Employment pathway</p>	<p>Graduates of the New Zealand Diploma in Construction with the strand in Construction Management (Level 6) will be able to work as a:</p> <ul style="list-style-type: none"> - Construction Management technician. <p>With further training and/or experience graduates of this Diploma may be able to work as a:</p> <ul style="list-style-type: none"> - Residential or commercial construction site/project manager - Contracting construction manager/site/project manager - Property manager - Contracts supervisor/manager - Local or central government building inspector - Construction management tutor. <p>Graduates of the New Zealand Diploma in Construction with the strand in Quantity Surveying (Level 6) will be able to work as a:</p> <ul style="list-style-type: none"> - Quantity Surveyor. <p>With further training and/or experience graduates of this Diploma may be able to work as a:</p> <ul style="list-style-type: none"> - Senior quantity surveyor - Registered quantity surveyor - Estimator - Quantity surveying consultant/contractor - Procurement manager - Senior/Cost manager - Quantity surveying tutor.

Qualification specifications

<p>Qualification award</p>	<p>This qualification may be awarded by the Building and Construction Industry Training Organisation (BCITO) as the qualification developer and the industry training organisation arranging training leading to the qualification under section 5 of the Industry Training Act 1992.</p> <p>This qualification may also be awarded by any education provider recognised as a programme owner, accredited under the Education Act 1989 to deliver a programme leading to this qualification.</p> <p>The formal document certifying the award of this qualification will display the NZQF logo and may also include the name or logo of the qualification developer and/or other awarding body.</p>
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<p>Evidence requirements for assuring consistency</p>	<p>All tertiary education organisations (TEOs) either arranging training or delivering programmes that lead to the award of the qualification are required to participate in a consistency process scheduled by NZQA.</p> <p>This will involve review of evidence associated with graduate's achievement of outcomes, and agreeing acceptable thresholds for qualification outcome achievement, and areas for improvement.</p> <p>To demonstrate how graduates are achieving the qualification graduate profile outcomes, TEOs are required to produce their own evidence in a high level report.</p> <p>Evidence may include the following:</p> <ul style="list-style-type: none"> - Programme statistics such as completion data and graduate destination data - Graduate portfolios at the programme level demonstrating that graduates meet the graduate profile outcomes. - Evidence from internal and/or external moderation processes. - Evidence that programmes continue to meet current industry needs. - Feedback such as employer surveys. - Any other relevant evidence as appropriate. <p>Further information about the consistency process can be found at http://www.nzqa.govt.nz/providers-partners/consistency-of-graduate-outcomes/</p>
<p>Minimum standard of achievement and standards for grade endorsements</p>	<p>Achievement of all outcomes in the compulsory section and at least one of the strands. There are no grade endorsements for this qualification.</p>
<p>Other requirements for the qualification (including regulatory body or legislative requirements)</p>	<p>Entry to this qualification is open. However, it is recommended that people entering programmes leading to the award of this qualification have:</p> <ul style="list-style-type: none"> - a minimum of 50 NCEA credits at Level 2 including 12 credits in Maths and a minimum of 12 Literacy credits at NCEA Level 1; - or be able to demonstrate equivalent knowledge and skills. <p>Recognition of prior learning application should be made to accredited providers and the Building and Construction Industry Training Organisation.</p>

General conditions for the programme leading to the qualification

<p>General conditions for programme</p>	<p>TEOs arranging training or delivering programmes towards this qualification must ensure that the training arranged and</p>
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programmes of learning delivered, are kept up-to-date with regard to amendments to, and replacements of relevant legislation, regulations and Australia/New Zealand Standards (AS/NZS).

Current standards can be accessed at <http://standards.co.nz>.

Current legislation and regulations can be accessed at <http://legislation.govt.nz>.

Definition of Category 1, 2 and 3 buildings in accordance with information on the MBIE website: <http://www.dbh.govt.nz/news-lbp-phase2>.

- Category 1 buildings (Design 1) are single household dwellings with low- or medium-risk envelope design.
- Category 2 buildings (Design 2) are single household dwellings with high-risk envelope design, or other buildings with a building height of 10m or less.
- Category 3 buildings (Design 3) are buildings 10m or greater in building height, except single household dwellings.

All graduate profile outcomes must be in accordance with the relevant legislation, including:

- Building Act 2004
- Construction Contracts Act 2002
- Consumer Guarantees Act 1993
- Companies Act 1993
- Electricity Act 1992
- Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995, specifically the definitions referring to Construction Work and Notifiable Work
- Human Rights Act 1993
- Local Government Act 2002
- New Zealand Building Code
- Partnership Act 1908
- Plumbers, Gasfitters, and Drainlayers Act 2006
- Privacy Act 1993
- Resource Management Act 1991
- Telecommunications Act 2001
- Treaty of Waitangi Act 1975
- Weathertight Homes Resolution Services Act 2006
- AS/NZS 3500 Set available from Standards New Zealand
- NZS 3604:2011 *Timber frames buildings* and NZS 4229:2013 *Concrete masonry buildings not requiring specific engineering design* available from Standards New Zealand
- NZS 3902:2004 *Housing, alterations and small buildings contract* available from Standards New Zealand
- NZS 3910:2013 *Conditions of contract for building and civil engineering construction* available from Standards NZ

	<ul style="list-style-type: none"> - NZS 3915:2005 <i>Conditions of contract for building and civil engineering construction (where no person is appointed to act as engineer to the contract)</i> available from Standards New Zealand - NZS 3916:2013 <i>Conditions of contract for building and civil engineering – Design and construct</i> available from Standards New Zealand - NZS 3917:2013 <i>Conditions of contract for building and civil engineering construction – Fixed term</i> available from Standards New Zealand - NZS 4202:1995 <i>Standard method of measurement of building works</i> available from Standards New Zealand - Standard Conditions of Contract NZIA SCC 2014 available from the New Zealand Institute of Architects http://www.nzia.co.nz/e-shop.aspx. <p>TEOs offering programmes leading to this qualification must maintain currency with amendment to, and replacement of, relevant legislation, regulations, rules and Australian/New Zealand Standards.</p>
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Conditions relating to the Graduate profile

Qualification outcomes		Conditions
1	<p>Understand and apply knowledge of the roles, standard documentation and administrative requirements of the construction industry, and communicate in a construction related context.</p> <p>10 credits</p>	<p>Outcomes may be demonstrated through assessment against this recommended optional unit standard:</p> <p>27160</p>
2	<p>Operate within the statutory and regulatory environment as it applies to the construction and design of buildings.</p> <p>5 credits</p>	<p>Outcomes may be demonstrated through assessment against this recommended optional unit standard:</p> <p>9664</p>
3	<p>Manage construction and resource allocation, programming and construction activities, for a medium building and for medium and large buildings, understand the principles related to the provision of services.</p> <p>25 credits</p>	<p>Outcomes may be demonstrated through assessment against this recommended optional unit standard:</p> <p>9637</p>

4	<p>Evaluate and select materials and finishes for building projects, taking into account environmental aspects of the design and construction techniques to be used.</p> <p>25 credits</p>	<p>Outcomes may be demonstrated through assessment against these recommended optional unit standards:</p> <p>9669 9670</p>
5	<p>Apply a broad knowledge of the structure and structural principles for building work including foundations, substructure, the envelope and the interior, and passive fire protection systems for medium and large buildings.</p> <p>45 credits</p>	<p>Outcomes may be demonstrated through assessment against these recommended optional unit standards:</p> <p>27157 27158 27161</p>
6	<p>Analyse, select and administer construction contracts including the preparation of a tender submission from trade sections and other financial components and value building works up to and including final account statements.</p> <p>45 credits</p>	<p>Outcomes may be demonstrated through assessment against these recommended optional unit standards:</p> <p>10044 27153 27155</p>
7	<p>Work in a team and identify organisational principles in a construction and consulting environment.</p> <p>10 credits</p>	<p>For working in a team, evidence should include:</p> <ul style="list-style-type: none"> - problem types and problem solving - critical thinking - health and safety in a construction environment - active listening skills - knowledge of organisational structures - record keeping - motivation and productivity.
<p>Construction Management strand graduates will also be able to:</p>		
8	<p>Develop construction plans and methodologies, for medium buildings.</p> <p>35 credits</p>	<p>Outcomes may be demonstrated through assessment against these recommended optional unit standards:</p> <p>9633 9636</p>
9	<p>Create technical sketches to communicate information relevant to the construction</p>	<p>Outcomes may be demonstrated through assessment against this recommended optional unit standard:</p>

	project. 5 credits	27162
10	Assist with general construction management tasks. 35 credits	Outcomes may be demonstrated through assessment against these recommended optional unit standards: 9635 9639 9640 14599 27154
Quantity Surveying strand graduates will also be able to:		
11	Analyse and present feasibility information and preliminary estimates to clients. 20 credits	Outcomes may be demonstrated through assessment against these recommended optional unit standards: 9663 10043
12	Assemble quantity surveying documentation relevant to specialist and specific trade sections and measure a schedule of quantities for a small building of an individual trade section including services. 45 credits	Outcomes may be demonstrated through assessment against these recommended optional unit standards: 10039 27150
13	Collate all priced components into a tender submission for medium and large buildings using tender process knowledge. 10 credits	Outcomes may be demonstrated through assessment against this recommended optional unit standard: 27151

Transition information

Replacement information

This qualification replaced the National Diploma in Construction Management (Level 6) [Ref: 0356] and the National Diploma in Quantity Surveying (Level 6) [Ref: 0358].

The last date for entry into programmes leading to the replaced qualifications [Ref: 0356] and [Ref: 0358] is 01 March 2017. The last date for completion of that qualification is 01 March 2019, at which time it will be designated as discontinued.

Existing candidates may either complete the replaced qualification or transfer to the New Zealand Diploma in Construction (Level 6) with strands in Construction Management and Quantity Surveying [Ref: 2420].

Republication information

This qualification was republished in March 2016 to extend the last date for enrolment on the replaced qualification from 31 December 2016 to 01 March 2017, and to extend the last date for assessment from 31 December 2018 to 01 March 2019.