

## New Zealand Diploma in Construction (Level 6)

### Strands in Construction Management and Quantity Surveying

<b>MOE Code</b>	NZ2420	<b>Level</b>	6	<b>Duration</b>	2 academic years (full-time)	<b>Version</b>	1
<b>Delivery</b>	Full-time, Intramural. Part-time option available			<b>Intakes</b>	Semester 1		
<b>Strategic purpose</b>	<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>						
<b>Graduate profile</b>	<p>Graduates of this qualification will, in the workplace, be able to:</p> <ul style="list-style-type: none"> <li>- Understand and apply knowledge of the roles, standard documentation and administrative requirements of the construction industry, and communicate in a construction related context.</li> <li>- Operate within the statutory and regulatory environment as it applies to the construction and design of buildings.</li> <li>- 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.</li> <li>- Evaluate and select materials and finishes for building projects, taking into account environmental aspects of the design and construction techniques to be used.</li> <li>- 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.</li> <li>- 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.</li> <li>- Work in a team and identify organisational principles in a construction and consulting environment.</li> </ul> <p><b>Construction Management strand graduates</b> will also be able to:</p> <ul style="list-style-type: none"> <li>- Develop construction plans and methodologies, for medium buildings.</li> <li>- Create technical sketches to communicate information relevant to the construction project.</li> <li>- Assist with general construction management tasks.</li> </ul> <p><b>Quantity Surveying strand graduates</b> will also be able to:</p> <ul style="list-style-type: none"> <li>- Analyse and present feasibility information and preliminary estimates to clients.</li> <li>- 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.</li> <li>- Collate all priced components into a tender submission for medium and large buildings using tender process knowledge.</li> </ul>						
<b>Education pathway</b>	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.						
<b>Employment pathway</b>	<p>Graduates of the <b>New Zealand Diploma in Construction with the strand in Construction Management (Level 6)</b> will be able to work as a Construction Management technician. With further training and/or experience graduates of this Diploma may be able to work as a Residential or commercial construction site/project manager; Contracting construction manager/site/project manager; Property manager; Contracts supervisor/manager; Local or central government building inspector; or Construction management tutor.</p> <p>Graduates of the <b>New Zealand Diploma in Construction with the strand in Quantity Surveying (Level 6)</b> will be able to work as a Quantity Surveyor. With further training and/or experience graduates of this Diploma may be able to work as a Senior quantity surveyor; Registered quantity surveyor; Estimator; Quantity surveying consultant/contractor; Procurement manager; Senior/Cost manager; or Quantity surveying tutor.</p>						
<b>Award(s)</b>	New Zealand Diploma in Construction (Level 6)						
<b>Completion requirements</b>	240 credits, as listed in Programme Structure.						
<b>Credit recognition</b>	<i>This programme has been accredited by NZQA. As it does not contain unit standards from the NZQF, credits are not reported to NZQA.</i>						
<b>Entry requirements</b>	<p>Credit from Recognition of Prior Learning, Credit Transfer and Unit Standard Transfer (if applicable) will be in accordance with the policy <i>Credit Recognition (05.004)</i>.</p> <p>All applicants must:</p> <ul style="list-style-type: none"> <li>• be at least 16 years old at the time the programme commences</li> <li>• be able to read, write, and communicate in English at a basic level</li> <li>• be physically able to complete the programme specific outcomes</li> <li>• hold 50 NCEA credits at Level 2 including 12 credits in mathematics (excluding statistics) and a minimum of 12 literacy credits at NCEA level 1.</li> </ul> <p>Applicants for whom English is not a first language must have an IELTS score of 6 with no band score lower than 5.5; or an accepted international equivalence.</p>						
<b>Selection information</b>	All applicants will be interviewed. Where applicants exceed available places, selection will be based on the order of complete applications received.						
<b>Time limit for completion</b>	5 years from initial enrolment						
<b>Programme structure</b>							
<b>Code</b>	<b>Title</b>					<b>Credits</b>	<b>Level</b>
<b>Compulsory courses – Year one</b>							
DCCI400	Construction Industry Environment					15	4
DCMS400	Materials and Structural Principles					15	4
DCEI500	Environmental Impact					15	5
DCBS500	Building Services					15	5
DCCS500	Construction for Small Buildings					15	5
DXES500	Estimation for Small Buildings					15	5
DXPP500	Professional Practice for the Construction Industry					15	5
<b>Construction Management Strand</b>							
DMQA500	Site Safety and Quality Assurance Planning for Construction					15	5
<b>Quantity Surveying Strand</b>							
DQME500	Measurement for Small Buildings					15	5
<b>Compulsory courses – Year 2</b>							
DCCM600	Construction for Medium and Large Buildings					15	6
DXFN600	Financial Administration of Construction Contracts					15	6
DXPG600	Programming for Medium Buildings					15	6
DXPR600	Construction Industry Procurement					15	6

<b>Construction Management Strand</b>				
DMSS500	Site Survey Preparation and Analysis		15	5
DMMG600	Site Management		15	6
DMMS600	Method Statements for Medium Buildings		15	6
DMPM600	Planning Construction for Medium Buildings		15	6
<b>Quantity Surveying Strand</b>				
DQES500	Estimation for Medium and Large Buildings		15	5
DQCP600	Cost Planning		15	6
DQME600	Measurement for Medium and Large Buildings		15	6
DQMS600	Measurement for Buildings, Services and Civil Works		15	6
<b>Course prescriptors</b>				
Title		Code	Credits	Level
<b>Building Services</b>		<b>DCBS500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to understand the purpose, operating principles, coordination and legislative requirements required to manage a range of services in small, medium and large buildings.				
<b>Construction for Medium and Large Buildings</b>		<b>DCCM600</b>	<b>15</b>	<b>6</b>
Aim: To enable students to apply knowledge, skills and understanding of foundation methods, structural systems, building envelope and the interior to the construction of medium and large buildings. <i>Pre-requisite: DCCS500</i>				
<b>Construction for Small Buildings</b>		<b>DCCS500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to develop and apply knowledge, skills and understanding of structures, building envelope and the interior for a small building. <i>Co-requisite: DQME500</i>				
<b>Construction Industry Environment</b>		<b>DCCI400</b>	<b>15</b>	<b>4</b>
Aim: To enable the student to develop skills and knowledge of construction law and documentation; and communicate effectively within the construction environment				
<b>Construction Industry Procurement</b>		<b>DXPR600</b>	<b>15</b>	<b>6</b>
Aim: To enable students to understand a range of procedures, types of contracts, methodologies and processes for the procurement of medium building projects. <i>Pre-requisite: DXES500</i>				
<b>Cost Planning</b>		<b>DQCP600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to analyse and prepare preliminary estimates, elemental cost plans and cash flow statements for medium and large building projects. <i>Pre-requisites: DQME500; and DCCS500</i> <i>Co-requisite: DCCM600</i>				
<b>Environmental Impact</b>		<b>DCEI500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to develop the skills and knowledge required to evaluate site and building limitations including environmental impacts and sustainable methods of construction.				
<b>Estimation for Medium and Large Buildings</b>		<b>DQES500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to estimate costs for inclusion in tenders for medium and large building projects. <i>Pre-requisite: DXES500</i> <i>Co-requisite: DQME600</i>				
<b>Estimation for Small Buildings</b>		<b>DXES500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to measure and estimate costs for inclusion in tenders for small building projects				
<b>Financial Administration of Construction Contracts</b>		<b>DXFN600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to develop skills and knowledge to analyse and conduct a valuation and prepare account statements for work carried out on a construction site. <i>Pre-requisite: DCCI400</i>				
<b>Materials and Structural Principles</b>		<b>DCMS400</b>	<b>15</b>	<b>4</b>
Aim: To enable students to gain the knowledge, skills and understanding of structural principles and the properties of materials and finishes applicable to small building projects.				
<b>Measurement for Buildings, Services and Civil Works</b>		<b>DQMS600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to assemble and measure schedules of quantities for services and civil engineering work from project information. <i>Pre-requisite: DQME500</i> <i>Co-requisite: DCBS500</i>				
<b>Measurement for Small Buildings</b>		<b>DQME500</b>	<b>15</b>	<b>5</b>
Aim: To enable the student to develop the skills and knowledge to assemble quantity surveying documentation and measure schedules of quantities for a small building project. <i>Co-requisite: DCCS500</i>				
<b>Measurement for Medium and Large Buildings</b>		<b>DQME600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to assemble and measure schedules of quantities from project information for medium and large buildings. <i>Pre-requisite: DQME500</i> <i>Co-requisite: DQES500</i>				
<b>Method Statements for Medium Buildings</b>		<b>DMMS600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to prepare pre- and post-contract method statements for a medium building project. <i>Pre-requisites: DCCI400; and DCCS500</i>				
<b>Planning Construction for Medium Buildings</b>		<b>DMPM600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to prepare pre- and post-contract construction plans for a medium building project. <i>Pre-requisites: DCCI400; and DCCS500</i>				
<b>Professional Practice for the Construction Industry</b>		<b>DXPP500</b>	<b>15</b>	<b>5</b>
Aim: To enable students to become an effective and responsible team member within a construction and consulting environment.				
<b>Programming for Medium Buildings</b>		<b>DXPG600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to effectively programme and monitor activities, resources and contingencies for a medium building. <i>Pre-requisites: DCCI400; and DCCS500</i>				
<b>Site Safety and Quality Assurance Planning for Construction</b>		<b>DMQA500</b>	<b>15</b>	<b>5</b>
Aim: To enable the student to develop the skills and knowledge to assist in the preparation and implementation of site safety and quality assurance plans for a construction site. <i>Pre-requisite: DCCI400</i>				
<b>Site Survey Preparation and Analysis</b>		<b>DMSS500</b>	<b>15</b>	<b>5</b>
Aim: To enable the student to develop the skills and knowledge to assist and conduct site surveys and analysis.				
<b>Site Management</b>		<b>DMMG600</b>	<b>15</b>	<b>6</b>
Aim: To enable the student to understand site procedures and assist with the management of the construction environment for a medium building project. <i>Pre-requisites: DMQA500; and DCCS500</i>				