He Puka Whakaaetanga, Whakamana Hōtaka | Socialisation Document

Programme of Study: New Zealand Diploma in Construction (Level 6)

Leading to the award of: 2420 New Zealand Diploma in Construction (Level 6) with strands in Construction Management and Quantity Surveying



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Ngā Ihirangi | Contents

1	New Ze	aland Diploma in Construction (Level 6)	1
	1.1	Te Tūhono Kawenga Hōtaka A Unified Portfolio of Programmes	1
	1.2	Te Huanui Whakawhanake i te Hōtaka Development Approach	2
	1.3	Te Whakawhitinga ki te Tūhono Kawenga Hōtaka Transition to the Unified Programme	3
Арре	endix 1:	Te Hono o te Kahurangi Qualification Details	4
Арре	endix 2:	Waeture ā-Hōtaka Programme Regulations	8
		Ngā Hua o te Ako me te hāngai ki Ngā Putanga Ako a te Tauira Learning Outcomes and Mapped to Graduate Profile Outcomes	11
Арре	endix 4:	Akoranga Courses	15

1 New Zealand Diploma in Construction (Level 6)

1.1 Te Tūhono Kawenga Hōtaka | A Unified Portfolio of Programmes

Te Pūkenga aims to develop a unified, sustainable, public network of regionally accessible vocational education programmes that have our ākonga (students) at the centre. This application for programme approval and accreditation forms part of the development of a national network of provision requiring partnerships and cooperation with co-responsibilities for programme delivery. This is consistent with Te Pūkenga academic delivery innovation strategic direction, which is aimed at establishing a coherent portfolio of programmes that will support ākonga, employers and industry to make informed decisions about future study and employment and achieve a sustainable network of ongoing delivery.

In order to develop a coherent portfolio of programmes that supports the above strategic direction, a unification process has been established that is aimed at achieving a future state of (in the main) one programme per qualification that supports and allows for a range of delivery modes, namely blended, distance and work-based learning. Currently, Te Pūkenga needs to work within the parameters of Programmes of Industry Training reporting via the ITR and Programmes of Study reporting via the SDR (as integrated NZ Programmes / Skills Standards and an integrated TEC reporting system are not yet available). The unified programme of study presented here unifies on-campus, blended and distance approaches, reported through the current SDR.

The unification process has been designed to employ a collaborative approach to redevelopment that will ensure that programme design meets the criteria set by Te Pūkenga Charter and our commitments under Te Pae Tawhiti, our Te Tiriti o Waitangi Excellence Framework, and Te Rito, our Ākonga at the Centre research project and reports. This approach also fulfills the expectations of the emerging Whiria Te Pūkenga (Mātauranga Māori Framework) and Te Pūkenga Ako Framework (Learning and Teaching Framework).

One of Te Pūkenga educational priorities is a relentless focus on equity and ensuring participation. Therefore, equity is integrated and embedded into Te Pūkenga operating model blueprint and business case. Te Pūkenga is also committed to putting ākonga at the centre of all we do, and working towards equity and success for ākonga of all genders, ethnicities, cultures and abilities, as outlined in our Equity and Ākonga Success Strategy.

In 2020, Te Pūkenga commissioned the Ākonga at the Centre research project to gain insights from ākonga (and those that supported them) on the barriers and enablers to their success across the current learner journey. The project applied Te Tiriti o Waitangi inspired principles of excellence and used Critical Bicultural and Human Centred Design methodologies as a new and innovative approach for the public sector. The research led to three Te Rito reports, focusing on Māori, Pacific and Disabled ākonga, respectively. Te Rito framework builds towards our Equity Outcomes framework, its purpose being to guide Te Pūkenga in its response to the unique needs of all ākonga, with a priority focus on Māori, Pacific and Disabled ākonga.

In accordance with Te Tiriti o Waitangi, Te Pūkenga is focused on ensuring our services work well and respond with excellence to the needs of Māori ākonga and their whānau, and to the aspirations of iwi and Māori communities throughout Aotearoa New Zealand. This objective comes from our Charter, our legislative mandate, and from the will of our Council, and is supported by the opportunities outlined in Te Rito Report Part One. In working to achieve this objective, we know it is not Māori ākonga or communities that need to change to fit with us; rather it is our responsibility to ensure our services improve for the betterment of Māori.

In terms of the needs of Pacific ākonga, Te Rito Report Part Two indicated a range of opportunities to be taken up by Te Pūkenga. These range from targeted support for the wellbeing of Pacific

learners to empowering and bringing effect to Pacific hopes and dreams for intergenerational development and prosperity. Te Pūkenga is committed to ensuring all Pacific ākonga and kaimahi feel that they belong, that their voices are heard, that the use of Pacific languages is normalised and that their cultures are valued.

In terms of the needs of Disabled ākonga, Te Rito Report Part Three indicated the need for Te Pūkenga to provide appropriate impairment-related learning support for Disabled ākonga to achieve their academic potential and to resolve barriers to learning. The research also indicated the need for mental wellbeing support, the reduction of financial barriers, a focus on the development of digital literacy skills and ensuring access to the physical learning environment. Te Pūkenga has developed a national strategic disability action plan, which incorporates the Enabling Good Lives principles. The National Strategic Disability Action Plan implements the Accessibility Charter across Aotearoa New Zealand and supports consistent data collection on Disabled ākonga, and training. The plan provides a unified national strategy across Te Pūkenga and was developed with ākonga and kaimahi (staff). The plan provides a comprehensive road map towards a vocational system that hears the voices of Disabled ākonga and what they need to succeed.

The unified programme presented here contributes to the ability of Te Pūkenga to offer a coherent portfolio of programmes that responds to the needs of ākonga, industries, iwi, hapū, hapori, Māori communities and Pacific communities. This also begins to take us towards addressing some of the inequities that exist for priority ākonga.

1.2 Te Huanui Whakawhanake i te Hōtaka | Development Approach

The New Zealand Diploma in Construction (Level 6) qualification was updated, with Version 2 published in April 2021. The last date for assessments to take place for Version 1 of this qualification is 31 December 2023. Therefore, rather than each network partner dedicating time and resource to develop programmes of study for the new version individually, one programme of study was selected and revised to become the unified programme of study.

The programme of study presented here is based on a collaborative design process across the following Te Pūkenga network partners:

- Ara Institute of Canterbury Ltd (ARA)
- Otago Polytechnic Ltd (Otago)
- Southern Institute of Technology Ltd (SIT)
- The Open Polytechnic of New Zealand Ltd (TOP)
- Toi Ohomai Institute of Technology Ltd (ToiO)
- Unitec New Zealand Ltd (Unitec)
- Universal College of Learning Ltd (UCOL)
- Waikato Institute of Technology Ltd (Wintec)
- Whitireia Community Polytechnic Ltd and Wellington Institute of Technology Ltd (W&W)
- Western Institute of Technology at Taranaki Ltd (WITT)

The collaborative design process was supported by two groups: (i) a Steering Group with representation from every relevant network partner, i.e., every network partner delivering programmes of study in the broad discipline area of Construction; and (ii) a Working Group tasked specifically with the unification of this programme of study. The Workforce Development Council was included in the Steering Group membership and has thus been engaged in the unification process. The functions of the Steering Group were defined in a mutually agreed Terms of Reference, and included the following:

• oversight of the development of a single unified programme for each qualification Te Pūkenga delivers in the discipline area

- leading engagement with regional internal and external partners (including (i) relevant regional industry, including Māori and Pacific employers; (ii) communities at a local level, including hapū and iwi, and Pacific communities; (iii) Te Pūkenga kaimahi; and (iv) ākonga)
- steering programme unification work and providing advice and support to Working Groups

The Working Group of members from the collaborating Te Pūkenga network partners listed above selected the ARA programme of study (an existing approved programme) for the programme unification process. The programme selection criteria included the following:

- Version changes or accreditation/regulatory body changes have already been made.
- The programme was developed in close partnership with industry, hapū, iwi and Pacific communities.
- The programme was updated within the past three years.
- Minor updates to the programme will allow it to align with Te Pūkenga Charter.
- The programme already enables multiple modes of delivery.
- Te Tiriti o Waitangi is evident across the programme.
- The programme is ākonga-centred and allows a focus on under-served ākonga (Māori, Pacific, Disabled) and adult and second-chance ākonga).
- Minor updates to the programme will enable it to align with industry and community needs and allow regional flexibility.
- The programme addresses identified future needs of ākonga, industry and community.

1.3 Te Whakawhitinga ki te Tūhono Kawenga Hōtaka | Transition to the Unified Programme

As is clear from the above, the unification of this programme of study was achieved by means of *transition* to a single unified programme, developed on the basis of existing approved programme offerings that were informed by regional/local needs. Thus, programme content and delivery are contextualised, and provide relevant pathways to meet the needs of those local communities.

It should be acknowledged that the selection of a current approved programme as the basis for the unified programme means that aspects of the selected programme will be adopted across the network, such as programme structure, course details, and the ways in which Mātauranga Māori is embedded throughout the programme. A Mātauranga Māori snapshot tool will be applied to this unified programme to identify how contextualised Mātauranga Māori content is evident and what next steps are required to enhance or develop this further.

The unified programme presented here contributes to the ability of Te Pūkenga to offer a coherent portfolio of programmes and takes us a step towards addressing some of the inequities that exist for priority ākonga. Transition arrangements may be required for ākonga who fail to successfully complete courses within the existing programme of any given network partner. To this end, each network partner currently delivering this programme will create its own transition plan based on equivalencies between existing and new courses. Transition pathways will be identified on a case-by-case basis, informed by these course equivalencies, logistics and individual ākonga knowledge gaps. All care will be taken to minimise any ākonga disadvantage by their transition to the new programme, while still maintaining the integrity of the new unified programme.

Appendix 1: Te Hono o te Kahurangi | Qualification Details

Details for the programme of study	NZQA Reference No.	Version No.	Credits	Level
Programme Title New Zealand Diploma in Construction (Level 6)	XXXXX	2	240	6
with strands in Construction Management, and Quantity Surve	ying			

which leads to the award of the following qualification

Qualification Title New Zealand Diploma in Construction	on (Level 6)	2420	2	240	6					
with strands in Construction Manage	ment, and Quantity Survey	ying								
NZSCED	040303									
Qualification developer	Waihanga Ara Rau Const Development Council	ruction and I	nfrastructu	ure Workf	orce					
Quality assurance body	New Zealand Qualificatio	ns Authority								
Next review	30/04/2026									
Next planned consistency review	2024									

Strategic purpose

This qualification provides the building and construction industry with graduates who have the theoretical knowledge, skills and aptitude required to assist with all stages of construction management or quantity surveying under the supervision of an experienced practitioner. The qualification will provide employers and consumers with the confidence that construction and building projects are being effectively planned and organised with sound financial management that meets the requirements of New Zealand legislation, Codes of Practice, and New Zealand and Australian Standards.

This qualification is targeted at people intending to work as assistant construction managers or assistant quantity surveyors on construction projects, and also provides recognition of knowledge and skills for those already working in the roles.

The strands recognise the specific knowledge and skills involved in either construction management or quantity surveying.

Graduate profile

Graduates of this qualification will be able to:

- 1. Apply knowledge of the roles and responsibilities of stakeholders to administer and manage a construction contract.
- 2. Operate within the legislative and regulatory frameworks as they apply to the New Zealand building and construction industry.

- 3. Evaluate and select materials and finishes for building projects, giving consideration to environmental impacts of the design and construction techniques to be used.
- 4. Apply knowledge of structure and structural principles to manage construction for foundations, substructure, the building envelope, and the interior for small, medium and large buildings, and fire protection systems for medium and large buildings.
- 5. Plan, and monitor construction contracts including evaluation of tender submissions, measurement for and preparation of schedules of quantities, management of variations and expenditure control during construction.
- 6. 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.
- 7. Communicate effectively with parties to a construction contract using organisational principles, digital technologies and industry best practice.

Graduates of the Construction Management strand will also be able to:

- 8. Manage construction site logistics, resource allocation and construction activity for small, medium and large construction programmes.
- 9. Manage site establishment and provision of site services for short and long duration construction projects.
- 10. Create technical sketches to communicate information relevant to the construction project.
- 11. Apply leadership principles to manage construction site teams and support physical and mental wellbeing of a diverse construction site workforce.

Graduates of the Quantity Surveying strand will also be able to:

- 12. Analyse and present feasibility information and preliminary estimates to clients.
- 13. Assemble quantity surveying documentation relevant to specialist and specific trade sections, measure quantities and prepare a schedule of quantities for small and medium building projects of an individual trade section including services.
- 14. Collate all priced components into a tender submission for small, medium and large buildings using tender process knowledge.

Qualification education pathway

This qualification may build on the New Zealand Certificate in Construction Trades Supervision (Level 5) with strands in Residential Building, Commercial Construction, Construction Related Trades, and Construction Related Manufacturing [Ref: 4237]. This qualification may lead to higher level qualifications in the fields of Construction Management or Quantity Surveying.

Employment/cultural/community pathway

Graduates of the New Zealand Diploma in Construction (Level 6) Construction Management strand will be able to work in roles such as:

- Construction site manager
- Construction management assistant
- Construction project management assistant.

Graduates of the New Zealand Diploma in Construction (Level 6) Quantity Surveying strand will be able to work as a Quantity Surveyor.

Professional recognition/accreditation

Other requirements of the qualification (including regulatory body or legislative requirements)

The Construction Management strand aligns to 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 at: www.lbp.govt.nz.

General conditions for programme

Programmes must be in accordance with relevant legislation, standards and codes of practice including: Legislation accessed at https://www.legislation.govt.nz/ **Building Act 2004 Construction Contracts Act 2002** Consumer Guarantees Act 1993 Companies Act 1993 Electricity Act 1992 Health and Safety at Work Act 2015 Limited Partnerships Act 2008 Housing Accord and Special Housing Area Act 2013 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 WorkSafe New Zealand Act 2013 Health and Safety in Employment Regulations 1995 New Zealand Building Code Standards accessed at www.standards.co.nz AS/NZS 3500 NZS 3604:2011 NZS 4229:2013 NZS 3902:2004 NZS 3910:2013 NZS 3915:2005

NZS 3916:2013

NZS 3917:2013

ANZSMM:2018 accessed at

www.nziqs.co.nz

Standard Conditions of Contract NZIA SCC 2014 accessed at www.nzia.co.nz

Programmes leading to this qualification must be kept up-to-date with regard to amendments to, and replacements of relevant legislation, regulations and Australia/New Zealand Standards (AS/NZS).

Qualification version transition information

Version 2 of this qualification was published in April 2021 following a scheduled review. Please refer to Qualifications and Assessment Standards Approvals for further information.

The last date for assessment against version 1 of this qualification is 31 December 2023.

People working towards version 1 may either complete the requirements of that version by 31 December 2021 or transfer their results version 2.

It is the intention that no existing learners should be disadvantaged by these arrangements. Any person who considers that they have been disadvantaged may appeal to BCITO at the below address. Appeals will be considered on a case-by case basis.

Building and Construction Industry Training Organisation (BCITO) PO Box 2615 Wellington Telephone: 04 381 6430

Email: education@bcito.org.nz

Appendix 2: Waeture ā-Hōtaka | Programme Regulations

In the regulations presented here, unless the context otherwise requires, 'delegated authority' refers to an individual or role holder, or in some cases a committee, who has been delegated the authority to make a decision within a specific circumstance. A schedule of the various relevant delegations is maintained by the Programme Committee responsible for the programme. Te Pūkenga aims to enable broad access for ākonga and is committed to providing barrier-free access and participation for Māori, Pacific, Disabled and other equity groups.

Whakatapoko | Admission

General admission	To be admitted to this programme, applicants must hold one of the following: NCEA Level 2 including 12 credits in mathematics (excluding statistics) and a minimum of 12 literacy credits at NCEA Level 1.
Special admission	Any ākonga who is 20 years of age or older and has not reached the general admission requirements for their intended programme is eligible for Special Admission. Te Pūkenga works with the ākonga to ensure they are prepared for their intended programme.
Discretionary admission	Any ākonga who is not yet 20 years of age and has not reached the general admission requirements for their intended programme may be eligible for Discretionary Admission. In assessing whether to grant Discretionary Admission, the delegated authority focuses on the applicant's level of preparedness for their intended programme.
Additional requirements	
English language requirements	All applicants (international and domestic) for whom English or te reo Māori is not a first language need to provide evidence that they have the necessary English language proficiency required for the programme. International applicants are required to have an IELTS score of 6 (general or academic) with no individual band lower than 5.5 from one test taken in the preceding two years, or an equivalent described in NZQA Rules.

Tūtukitanga Whakamihi | Credit Recognition

The provisions and procedures for credit recognition through cross credit, credit transfer and recognition of prior learning in this programme are set out in with Te Kawa Maiorooro | Educational Regulatory Framework.

Tohu o te Hōtaka | Award of Qualification

Credit requirements	strands in Const achieve a minim	he New Zealand Diplor ruction Management a um of 240 credits in the out in Table 2 below. Requirements	and Quantity Surve	ying) , ākonga must						
	Level	Compulsory credits	Elective credits	Total credits						
		Construction Mai	nagement Strand							
	5	120		120						
	6 120 120									

			Quantity Sur	veying Strand		
	5		135			
	6		105			
	Total credits	;				240
	Table 2: Sche	dule o	f Courses			
	Course code	Cours	e title		Credits	Pre- requisites
		1	es (All strands)			I
	CONS6001	Intro	duction to Construc	ction Studies	15	
	CONS6002	Mate	rials and Structural	Principles	15	
	CONS6003	Envir	onment		15	
	CONS6004	Servio	ces		15	
	CONS6005	Const	ruction 1 Resident	ial	15	
	CONS6006	Law a	nd Construction Co	ontracts	15	
	CONS6007	Intro Estim	duction to Measure ation	ment and	15	
	Level 6 Core	course	es (All strands)			
	CONS6008	Const	ruction 2 Commer	cial	15	
	CONS6009	Finan	cial Administration		15	
	CONS6010	Procu	irement		15	
	CONS6011	Progr	amming		15	
	And fi	-	npulsory courses fro	om ONE of the foll	lowing stra	nds
	Construction					
	Level 5		0			
	CONS6101	Safet	y and Wellbeing		15	
	Level 6					1
	CONS6102	Plann	ing and Quality		15	
	CONS6103		Aanagement		15	
	CONS6104		ods Statements		15	
	CONS6105		nal Project		15	
	Quantity Sur	-	-		1.5	
	Level 5	veynig				
	CONS6501	Estim	ation		15	
	CONS6502		urement 1		15	
	Level 6	ivieas			1.7	
	CONS6503	Mean	urement 2		15	
	CONS6504		Planning		15	
	CONS6505		ruction Project		15	
	TOTAL CRED	115			24	iU
amme letion	The minimum 4 years (part-		to complete this pı tudy).	ogramme is 2 yea	ars (full-tim	e study) o
	The maximur	n time	to complete this p	rogramme is 8 yea	ars.	
			ority may approve			npletion

Waeture Aromatawai | Assessment Regulations

Grading	Assessment in this programme is achievement-based.
	Grading follows the guidelines in Te Kawa Maiorooro Educational Regulatory Framework.
	Specific assessment and/or course pass requirements are detailed in programme delivery documentation.
Assessment submission and additional opportunities	 Requirements and processes for assessment submission, resit and/or resubmission opportunities for failed assessments, reassessment opportunities for failed courses, late submission of assessments, and extension of assessment deadlines are outlined in programme delivery documentation provided to ākonga at the start of their course.

Appendix 3: Ngā Hua o te Ako me te hāngai ki Ngā Putanga Ako a te Tauira | Learning Outcomes and Assessment Mapped to Graduate Profile Outcomes

					Apply knowledge of the roles and responsibilities of stakeholders to administer and manage a construction	Operate within the legislative and regulatory frameworks as they apply to the New Zealand building and construction industry.	Evaluate and select materials and finishes for building projects, giving consideration to environmental impacts of the design and construction techniques to be used.	Apply knowledge of structure and structural principles to manage construction for foundations, substructure, the building envelope, and the interior for small, medium and large buildings, and fire protection systems for medium and large buildings.	Plan, and monitor construction contracts including evaluation of tender submissions, measurement for and preparation of schedules of quantities, management of variations and evenditure control during construction	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	Communicate effectively with parties to a construction contract using organisational principles, digital technologies and industry best practice.	Manage construction site logistics, resource allocation and construction activity for small, medium and large construction programmes.	Manage site establishment and provision of site services for short and long duration construction projects.	Create technical sketches to communicate information relevant to the construction project.	Apply leadership principles to manage construction site teams and support physical and mental well-being of a diverse construction site workforce.	Analyse and present feasibility information and preliminary estimates to clients.	Assemble quantity surveying documentation relevant to specialist and specific trade sections, measure quantities and prepare a schedule of quantities for small and	Collate all priced components into a tender submission for small, medium and large buildings using tender process knowledge.
Course Coc			se Aim & Outcomes	Assessment	GPO 1	GPO 2	GPO 3	GPO 4	GPO 5	GPO 6	GPO 7	GPO 8	GPO 9	GPO 10	GPO 11	GPO 12	GPO 13	GPO 14
CONS6001	Introduction to Construction	Aim	The aim of this course is to develop knowledge and skills related to cons responsibilities documentation and communication in the construction of															
	Studies	L01	Read and interpret technical literature used in the construction	All LOs:							v							
		LO2	industry. Define roles, responsibilities and documentation in the construction	Assessment portfolio (100%)	V													
			industry.	()	· ·													
		LO3	Analyse best practice in communication between parties in a construction contract.								v							
CONS6002	Materials and	Aim	The aim of this course is to develop knowledge and skills of structural pr	inciples and the properties														
	Structural Principles	LO1	of materials and finishes applicable to building projects. Evaluate the performance of materials and finishes used in building	All LOs:			V									٧		
			projects.	Assessment portfolio													ļ]	
			Select materials and finishes for building projects. Recognise structural principles and loading of building elements.	(100%)			V											
CONS6003	Environment		The aim of this course is to develop knowledge and skills to evaluate site															
		101	including environmental impacts and sustainable methods of construction Identify implications of site limitations including evaluation of existing	on. All LOs:			v											
			buildings.	Assessment portfolio			•											
		LO2	Analyse the environmental impact of design and construction techniques.	(100%)			V											
		LO3	Evaluate examples of sustainable design and construction practice.				V											
CONS6004	Services	Aim	The aim of this course is to develop knowledge and skills relevant to the															
			principles, coordination, and legislative requirements required to manage small, medium, and large buildings.	ge a range of services in														
			Evaluate the purpose and operating principles of services for small,	All LOs:				٧										
		102	medium and large buildings Analyse coordination and placement of services in small, medium, and	Assessment portfolio (100%)				v										
			large buildings.															
		LO3	Review legislative requirements for services in small, medium, and large buildings.					V										
CONS6005	Construction 1	Aim	The aim of this course is to develop and apply knowledge and skills relat	ed to structures, building														
	Residential		envelope and the interior for a small building.	1														
			Identify geotechnical factors and substructures for a small building. Evaluate building types and structures for a small building.	All LOs: Assessment portfolio				√ √										
			Evaluate building envelope material, interior linings, joinery, and	(100%)				√ √										
			fitments for a small building.											-1			ļ	
		L04	Create technical sketches for a small building project.											V				<u> </u>

New Zealand Diploma in Construction (Level 6) Socialisation Document 11

			Apply knowledge of the roles and responsibilities of stakeholders to administer and manage a construction	Operate within the legislative and regulatory frameworks as they apply to the New Zealand building and construction industry.	Evaluate and select materials and finishes for building projects, giving consideration to environmental impacts of the design and construction techniques to be used.	Apply knowledge of structure and structural principles to manage construction for foundations, substructure, the building envelope, and the interior for small, medium and large buildings, and fire protection systems for medium and large buildings.	Plan, and monitor construction contracts including evaluation of tender submissions, measurement for and preparation of schedules of quantities, management of variations and evanditure control during construction	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	Communicate effectively with parties to a construction contract using organisational principles, digital technologies and industry best practice.	Manage construction site logistics, resource allocation and construction activity for small, medium and large construction programmes.	Manage site establishment and provision of site services for short and long duration construction projects.	Create technical sketches to communicate information relevant to the construction project.	Apply leadership principles to manage construction site teams and support physical and mental well-being of a diverse construction site workforce.	Analyse and present feasibility information and preliminary estimates to clients.	Assemble quantity surveying documentation relevant to specialist and specific trade sections, measure quantities and prepare a schedule of quantities for small and Collate all priced components into a tender submission for small, medium and large buildings using tender process knowledge.
Course Code & Title	Course Aim & Outcomes	Assessment	GPO 1	GPO 2	GPO 3	GPO 4	GPO 5	GPO 6	GPO 7	GPO 8	GPO 9	GPO 10	GPO 11	GPO 12	GPO 13 GPO 14
CONS6006 Law and Construction Contracts	Aim The aim of this course is to develop knowledge of New Zealand legi frameworks and to relate these frameworks to professional practic consulting environment.														
	LO1 Analyse the regulatory framework that applies to the Aotearoa New Zealand building industry.	 All LOs: Assessment portfolio 		V											
	LO2 Identify New Zealand law relevant to construction site operations a construction contracts	nd (100%)		V											
	LO3 Apply the legal fundamentals of dispute resolution to construction management practice.			V											
CONS6007 Introduction to Measurement	Aim The aim of this course is to develop the knowledge and skills to me inclusion in tenders for building projects	asure and estimate costs for													
and Estimation	LO1 Evaluate a schedule of quantities for a building project	All LOs:					v								
	LO2 Measure builders' quantities for use in tender preparation for a building project	Assessment portfolio (100%)					٧								
	LO3 Compile unit rates and apply overheads, profit and on-cost items for						٧								
	building project LO4 Review and compile tender information for submission						v								
CONS6008 Construction 2	Aim The aim of this course is to develop the knowledge and skills to des	· · · · · ·													
Commercial	LO1 Identify geotechnical factors, foundations and structural systems for medium and long buildings.	r All LOs:				V									
	medium and large buildings. LO2 Review fire safety systems and egress route requirements for medi	Assessment portfolio (100%)				V									
	and large buildings LO3 Evaluate building envelope, interior lining , joinery and fitments for medium and large buildings.					V									
	LO4 Create technical sketches for medium and large building projects.											v			
CONS6009 Financial Administration	Aim The aim of this course is to develop the knowledge and skills to and and prepare account statements for work carried out on a construct	•													
	LO1 Estimate valuation of work carried out on a construction site.	All LOs:						V							
	LO2 Evaluate and compare variations, fluctuations, time extension costs							V							
	and adjustments for work carried out on a construction site LO3 Evaluate communication protocols, account statements and valuat	· · ·						V							
CONS6010 Procurement	presentation for work carried out on a construction site Aim The aim of this course is to develop knowledge and skills about a radius of the course is to develop knowledge and skills about about a radius of the course about about about about														
1	contracts, methodologies and processes for the procurement of bu														<u> </u>
	LO1 Evaluate different types of tenders for building projects	All LOs:						V							<u> </u>
	LO2 Outline the tender process for building projects	Assessment portfolio						V							<u> </u>
	LO3 Analyse and rank received tenders for building projects	(100%)						V							
	LO4 Outline the process for unsuccessful tenders for medium building projects							٧							

New Zealand Diploma in Construction (Level 6) Socialisation Document 12

				Apply knowledge of the roles and responsibilities of stakeholders to administer and manage a construction	Operate within the legislative and regulatory frameworks as they apply to the New Zealand building and construction industry.	Evaluate and select materials and finishes for building projects, giving consideration to environmental impacts of the design and construction techniques to be used.	Apply knowledge of structure and structural principles to manage construction for foundations, substructure, the building envelope, and the interior for small, medium and large buildings, and fire protection systems for medium and large buildings.	Plan, and monitor construction contracts including evaluation of tender submissions, measurement for and preparation of schedules of quantities, management of variations and expenditure control during construction. 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. Communicate effectively with parties to a construction contract using organisational principles, digital technologies and industry best practice.	Manage construction site logistics, resource allocation and construction activity for small, medium and large construction programmes.	Manage site establishment and provision of site services for short and long duration construction projects.	Create technical sketches to communicate information relevant to the construction project.	Apply leadership principles to manage construction site teams and support physical and mental well-being of a diverse construction site workforce.	Analyse and present feasibility information and preliminary estimates to clients.	Assemble quantity surveying documentation relevant to specialist and specific trade sections, measure quantities and prepare a schedule of quantities for small and	Collate all priced compc for small, medium and I process knowledge.
Course Code & Title		se Aim & Outcomes	Assessment	GPO 1	GPO 2	GPO 3	GPO 4	GPO 5 GPO 6	GPO 7	GPO 8	GPO 9	GPO 10	GPO 11	GPO 12	GPO 13	GPO 14
CONS6011 Programming	Aim	The aim of this course is to develop the knowledge and skills to effective activities, resources and contingencies for a medium building.	vely programme and monitor													
	LO1	Integrate construction activities, inter-relationships and sequencing for						V								
	LO2	a medium building project Compare resource allocation and monitoring for a medium building	Assessment portfolio (100%)					v								
	LO3	project Differentiate between programming of activities and resources for a	_					√								
		medium building project														
CONS6101 Safety and Wellbeing	Aim	The aim of this course is to develop the knowledge and skills to assist in implementation of site safety and workforce management for a constr														
		Evaluate site safety planning requirements for a construction site.	All LOs:						_				V			
		Analyse the wellbeing needs of a diverse construction workforce Apply leadership principles to manage work on a construction site.	Assessment portfolio (100%)										V V			
CONS6102 Planning and		The aim of this course is to develop the knowledge and skills to manag											v		<u> </u>	
Quality	LO1	allocation, construction activities and quality control for a construction Analyse logistical constraints of a construction site	site. All LOs:						_	V						
		Evaluate processes for ordering and receiving materials for a	Assessment portfolio							V						
	103	construction site Develop quality control strategies for a construction environment	(100%)										V			
CONS6103 Site		The aim of this course is to develop the knowledge and skills to integra	te site procedures and assist													
Management		with the management of the construction environment for a medium l	ouilding project.													
		Evaluate site establishment requirements for a construction project Analyse leadership and communication approaches that support the	All LOs: Assessment portfolio								√ √					
		performance of construction site teams	(100%)													
	LO3	Develop strategies to manage sub-contractor activities for a construction project									V					
CONS6104 Methods	Aim	The aim of this course is to develop the knowledge and skills to prepar	e pre- and post-contract													
Statements	LO1	method statements for a medium building project. Develop a pre-contract construction method statement for a	All LOs:								V					
		construction project	Assessment portfolio													
		Produce a progress report for a construction project Manage resources and logistics to address progress on a construction	(100%)							٧	V					
		site														
CONS6105 Regional Project	Aim	The aim of this course is to develop the knowledge and skills to act as of studies in selected aspects of regional construction practice, emerging and professional practice.														
	LO1	Investigate selected construction aspects of a significant regional or national construction project	All LOs: Assessment portfolio	V	V	٧	V	V V	V	V	٧	V	V			
	LO2	Evaluate the application of a selected advanced construction technology to a sector of the national construction industry.	(100%)	٧	V	٧	٧	V V	٧	٧	V	V	V			

New Zealand Diploma in Construction (Level 6) Socialisation Document 13

				Apply knowledge of the roles and responsibilities of stakeholders to administer and manage a construction	Operate within the legislative and regulatory frameworks as they apply to the New Zealand building and construction industry.	Evaluate and select materials and finishes for building projects, giving consideration to environmental impacts of the design and construction techniques to be used.	Apply knowledge of structure and structural principles to manage construction for foundations, substructure, the building envelope, and the interior for small, medium and large buildings, and fire protection systems for medium and large buildings.	Plan, and monitor construction contracts including evaluation of tender submissions, measurement for and preparation of schedules of quantities, management of	variations and experiments control outling construction. 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. Communicate effectively with parties to a construction contract using organisational principles, digital technologies and industry best practice.	Manage construction site logistics, resource allocation and construction activity for small, medium and large construction programmes.	Manage site establishment and provision of site services for short and long duration construction projects.	Create technical sketches to communicate information relevant to the construction project.	Apply leadership principles to manage construction site teams and support physical and mental well-being of a diverse construction site workforce.	Analyse and present feasibility information and preliminary estimates to clients.	Assemble quantity surveying documentation relevant to specialist and specific trade sections, measure quantities and prepare a schedule of quantities for small and	Collate all priced components into a tender submission for small, medium and large buildings using tender process knowledge.
Course Code	e & Title	Course Aim & Outcomes	Assessment	GPO 1	GPO 2	GPO 3	GPO 4	GPO 5	GPO 6	GPO 7	GPO 8	GPO 9	GPO 10	GPO 11	GPO 12	GPO 13	GPO 14
CONS6501	Estimation	Aim The aim of this course is to develop the knowledge and skills to estimate tenders for medium and large building projects.	e costs for inclusion in														
		LO1 Interpret a schedule of quantities for use in a tender submission for	All LOs:													V	
		medium and large building projects.LO2Compile unit rates, overheads, profit and on-cost items for medium	Assessment portfolio (100%)														٧
		and large building projects.LO3Review and compile tender information for submission for medium	_														٧
		and large building projects.															v
CONS6502	Measurement 1	Aim The aim of this course is to develop the knowledge and skills to assembl documentation and measure schedules of quantities for a small building															
		LO1 Interpret quantity surveying documentation relevant to specific trade	All LOs:													V	
		sections, not including services, to measure quantities for a small building project	Assessment portfolio (100%)														
		LO2 Prepare trade sections for a schedule of quantities for a small building project	_													٧	
		LO3 Assemble a schedule of quantities for a small building project	-													V	
CONS6503	Measurement 2	Aim The aim of this course is to develop the knowledge and skills to assemble quantities from project information for modulum and large buildings.	e and measure schedules of														
		quantities from project information for medium and large buildings.LO1Interpret quantity surveying documentation relevant to specialist trade	All LOs:													V	
		sections to measure quantities for medium and large buildings LO2 Prepare a schedule of quantities for a medium or large building	Assessment portfolio (100%)													V	
		LO3 Assemble a schedule of quantities for a medium or large building	(100%)													V V	
CONS6504	Cost Planning	Aim The aim of this course is to develop the knowledge and skills to analyse	and prepare preliminary														
		estimates, elemental cost plans and cashflow statements for medium an	1												v		
		LO1 Analyse documentation to produce estimates for a building project	All LOs: Assessment portfolio												V		
		LO2Compile gross floor area feasibility information for a clientLO3Compile preliminary estimates for a building project for a client	(100%)												V		
		LO3 Complete preliminary estimates for a building project for a client LO4 Produce cashflow statements for medium and large building projects	-												V		V
CONS6505	Construction	Aim The aim of this course is to develop the knowledge and skills to act as co	onstruction managers and														· ·
	Project	quantity surveyors by studies in selected aspects of regional construction	-														
		construction technologies and professional practice. LO1 Investigate selected quantity surveying aspects of a significant regional	All LOs:	V	v	v	V	V	V	V					v	V	
		or national construction project	Assessment portfolio	V	V	v	V	V	V	v					v		V
		LO2 Evaluate the application of a selected advanced construction technology to a sector of the national construction industry.	(100%)	V	V	V	V	V	V	V					V	V	V

Appendix 4: Akoranga | Courses

The following Course Descriptors provide an overview of the content and structure of each course in the programme. Learning and teaching, and assessment activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Course code	CONS6001	Level	5	Credits	15							
Pre-requisites		Co-requis	ites									
Main programme	New Zealand Diploma in Construction (Level 6)	Other pro	ogrammes	New Zealar Diploma in Architectur Technology	ral							
Delivery modes	Provider-based Provider-based (extramural)	(See co	rning hours document for I breakdown.)	150								

Whāinga/He Tauākī Akoranga|Aim/Outcome Statement

The aim of this course is to develop knowledge and skills related to construction roles, responsibilities documentation and communication in the construction environment.

Ngā Hua o te Ako|Learning Outcomes

Upont	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Read and interpret technical literature used in the construction industry.	7
LO2	Define roles, responsibilities and documentation in the construction industry	1
LO3	Analyse best practice in communication between parties in a construction contract.	7

Ngā Tūtohu o te Kiko | Indicative Content

L01	•	Technical literature: includes working drawings, manufacturers' specifications, instruction drawings and specifications.
LO2	•	Roles, responsibilities and documentation: Overview of functions and responsibilities. Overview of critical path programming and monitoring, purpose and content of drawings, specifications including consent requirements, schedules of quantities.
LO3	•	Communication, accuracy and appropriateness of information, meetings, conflict resolution, written and face-to-face interaction, current and emerging technologies, delegation, reporting lines, formal/informal meeting protocols.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

MATERIALS AND STRUCTURAL PRINCIPLES							
Course code	CONS6002	Level	5	Credits	15		
Pre-requisites		Co-requisites					
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes		New Zealar Diploma in Architectur Technolog	ral		
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)		150			

The aim of this course is to develop knowledge and skills of structural principles and the properties of materials and finishes applicable to building projects.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Evaluate the performance of materials and finishes used in building projects.	3
LO2	Select materials and finishes for building projects.	12
LO3	Review structural principles and loading of building elements for building projects.	3

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Characteristics, properties, and performance: identification of characteristics and physical properties, environmental factors, and potential hazards; and evaluation of performance relating to function
LO2	•	Selection and compatibility: identification and evaluation of compatible elements and environmental impact. Choice of materials and finishes is in accordance with design, function, and construction methods.
LO3	• Structural principles and loadings: characteristics and effects of loads, bracing reinforcing of various building materials. Evaluation of element failure	

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Wehenga/Standards

Std no.	Title	Version	Credits	Level

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

ENVIRONMENT					
Course code	CONS6003	Level	5	Credits	15
Pre-requisites		Co-requis	ites		
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes		New Zealar Diploma in Architectur Technology	ral
Delivery modes	Provider-based Provider-based (extramural)	(See course delivery d		rning hours document for I breakdown.)	150

The aim of this course is to develop knowledge and skills to evaluate site and building limitations including environmental impacts and sustainable methods of construction.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Identify implications of site limitations including evaluation of existing buildings.	3
LO2	Analyse the environmental impact of design and construction techniques.	3
LO3	Evaluate examples of sustainable design and construction practice.	3

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Site limitations and existing buildings: Feasibility study - building limitations, future site use and development, evaluation of existing buildings. Overview of Resource Management Act and district/unitary plan.
LO2	•	Environmental impact: identification of internal and external environmental aspects and their potential impact on a range of building types, including construction methods and provision for services. Environmental impacts of construction activity such as consumption of non-renewable resources and the creation of waste streams.
LO3	•	Sustainable design and construction practice: sustainable design and construction techniques including methods for evaluating buildings' sustainability such as Green Star ratings, cost implication guidelines and regulatory requirements.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

SERVICES					l
Course code	CONS6004	Level	5	Credits	15
Pre-requisites	Materials and Structural Principles; Construction 1	Diplor Archit			
Main programme	New Zealand Diploma in Construction (Level 6)			New Zealand Diploma in Architectural Technology (Level 6)	
Delivery modes	Provider-based Provider-based (extramural)			document for	150

The aim of this course is to develop knowledge and skills relevant to the purpose, operating principles, coordination, and legislative requirements required to manage a range of services in small, medium, and large buildings.

Ngā Hua o te Ako|Learning Outcomes

Upon the successful completion of this course, ākonga will be able to		Graduate outcome alignment
LO1	Evaluate the purpose and operating principles of services for small, medium and large buildings	4
LO2	Analyse coordination and placement of building services in small, medium, and large buildings.	4
LO3	Review legislative requirements for services in small, medium, and large buildings.	4

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Purpose and operating principles: identification of purpose, components, operating principles, and safety features for a range of services.
LO2	•	Coordination, placement, and reticulation: coordination of consultants. Placement - compatibility, construction, use and service/maintenance. Interpretation of reticulation and service drawings.
LO3	•	Legislative requirements and responsibilities: analysis of relevant legislation – electrical, plumbing, fire protection, transport systems, HVAC; including installation, service/maintenance requirements and responsibilities.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based / competency-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

CONSTRUCTION 1 RESIDENTIAL					
Course code	CONS6005	Level	5	Credits	15
Pre-requisites		Co-requisites			
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes		New Zealar Diploma in Architectur Technolog	ral
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop and apply knowledge and skills related to structures, building envelope and the interior for a small building.

Ngā Hua o te Ako|Learning Outcomes

Upon the successful completion of this course, ākonga will be able to		Graduate outcome alignment
LO1	Identify geotechnical factors and substructures for a small building.	4
LO2	Evaluate building types and structures for a small building.	4
LO3	Evaluate building envelope material, interior linings, joinery, and fitments for a small building.	4
LO4	Create technical sketches for a small building project.	10

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Geotechnical factors and substructures: overview of substructure and design requirements including site constraints, materials, time, and cost. Foundation methods utilising a range of materials – timber, concrete, steel.
LO2	 Building types and structure: use and empirical design requirements, provision services, materials, cladding and finishes. Construction process – site constrain range of materials, time, and cost implications for specific and non-specific de 	
LO3	•	Building envelope: selection and design – wall/roof cladding and openings are in accordance with characteristics of structure. Design principles – typical cladding jointing system. Provision for services, materials, and finishes. Construction process – site constraints, range of materials, time, and cost implications. Interior linings, joinery, fitments. Selection meets building characteristics and regulatory requirements. Provision for services, materials and finishes. Construction process – site constraints, materials, time and cost implications.
LO4	•	Technical sketches

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based / competency-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

LAW AND CONSTRUCTION CONTRACTS								
Course code	Course code CONS6006 Level				15			
Pre-requisites		Co-requisites						
Main programme	New Zealand Diploma in Construction (Level 6)							
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)		150				

The aim of this course is to develop knowledge of New Zealand legislative and regulatory frameworks and to relate these frameworks to professional practice within a construction and consulting environment.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Analyse the regulatory framework that applies to the Aotearoa New Zealand building industry	2
LO2	Identify New Zealand law relevant to construction site operations and construction contracts	2
LO3	Apply the legal fundamentals of dispute resolution related to construction management practice.	2

Ngā Tūtohu o te Kiko | Indicative Content

LO1	• • •	New Zealand legal structure: Sources of law and current structure: common law, equity and statue law The separation of powers: The role of Parliament, the Executive, the Judiciary and the Ombudsman. The legal standing of te Tiriti o Waitangi: its impact on the law generally and the construction industry in particular. Civil law principles: Land, Contract and Torts especially negligence. Building regulatory system
LO2	•	New Zealand Statutes and their relevance to the construction Industry: Building Act 2004, NZ Building Code, Weathertight Homes Resolution Services Act 2006, Resource Management Act 1991, Health and Safety at Work Act 2015, Accident Compensation Act 2001, Construction Contracts Act 2002, NZIQS Elemental Analysis (current edition)
LO3	•	Dispute Resolution: Legal fundamentals and types of dispute resolution that arise in the construction industry. Methods: Negotiation, mediation, adjudication, arbitration.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

INTRODUCTION TO MEASUREMENT AND ESTIMATION								
Course code	Course code CONS6007 Level 5							
Pre-requisites	Construction 1	Co-requisites						
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes						
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)						

The aim of this course is to develop the knowledge and skills to measure and estimate costs for inclusion in tenders for small building projects

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Measure builders' quantities for use in tender preparation for small building projects	5
LO2	Compile unit rates and apply overheads, profit and on-cost items for small building projects	5
LO3	Review and compile tender information for submission	5

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Schedule of quantities: role in preparing a tender submission. Outline main contractor/subcontractor costs and responsibilities for use in trade, preliminary and general sections of the tender.
LO2	•	Unit rates and application of overheads, profit and on-cost items: build up unit rates for a range of measured items and identification of pricing components. Selection and application of labour, materials, plant. Principles, classification and application of onsite/off site overheads, profit and on-cost items – total trade costs. Market rates, cost, availability, conditions of sale/hire. Quotations – use, assessment and selection.
LO3	•	Compilation of tender information: Collation of priced items, trade totals, and lump sums for preliminary and general sections in accordance with tender and contract conditions.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based / competency-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

CONSTRUCTION 2 COMMERCIAL									
Course code	CONS6008	Level	6	Credits	15				
Pre-requisites	Construction 1	Co-requis	Co-requisites						
Main programme	New Zealand Diploma in Construction (Level 6)	Di Ar		New Zealar Diploma in Architectur Technology	ral				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)			150				

The aim of this course is to develop the knowledge and skills to design foundation methods, structural systems, building envelope and the interior for medium and large buildings.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Identify geotechnical factors, substructures, and structural systems for medium and large buildings	4
LO2	Review passive fire protection systems and egress route requirements for medium and large buildings	4
LO3	Evaluate the building envelope, interior linings, joinery, and fitments for medium and large buildings	4
LO4	Create technical sketches for medium and large building projects	10

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Geotechnical factors, substructures, and structural systems: overview of substructure and design requirements including site constraints, materials, time, and cost. Foundation methods utilising a range of materials – timber, concrete, steel. Structural systems – building type, use and design requirements, provision for services, materials, cladding and finishes. Construction process – site constraints, range of materials, time, and cost implications.
LO2	•	Passive fire protection systems: selection, materials and design requirements are in accordance with NZ Building Code – fire rated separations, fire doors, fire windows, structural protection, penetrations, egress. Provision for services, materials, cladding and finishes. Construction process - site constraints, range of materials, time, and cost implications.
LO3	•	Building envelope: selection and design – wall/roof cladding and openings is in accordance with characteristics of structure. Design principles – typical cladding jointing systems. Provision for services, materials and finishes to meet building use and design requirements. Construction process – site constraints, range of materials, time, and cost implications.

	•	Interior linings, joinery and fitments. Selection meets building characteristics and regulatory requirements. Provision for services, materials and finishes. Construction process – site constraints, materials, time and cost implications
LO4	•	Technical sketches

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

FINANCIAL ADMINISTRATION					
Course code	CONS6009	Level	6	Credits	15
Pre-requisites		Co-requisites			
Main programme	programme New Zealand Diploma in Other programmes Construction (Level 6)				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to analyse and conduct a valuation and prepare account statements for work carried out on a construction site.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Estimate valuation of work carried out on a construction site	6
LO2	Evaluate and compare variations, fluctuations, time extension costs and adjustments for work carried out on a construction site	6
LO3	Integrate communication protocols, account statements and valuations presentation for work carried out on a construction site	6

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Valuation of work carried out on a construction site: amendments – sum and quantity adjustments; variations – additions, deductions, time for completion; unfixed materials both on/off site.
LO2	•	Evaluation of variations, fluctuations, time extension costs and adjustments: variations - overview of systems, site instructions, variation price requests, variation orders and progressive cost implications – measurement, pricing. Fluctuations – classification of recovery methods, evaluation of correct price variations. Time extensions – evaluation of claims, cost impact. Adjustments against actual expenditure – provisional, prime cost, net, contingency.
LO3		Communication protocols, account statements and valuations presentation: communication protocols and procedures established and monitored throughout the project. Account statements – interim and final, including contract works, variations, fluctuations, adjustments, liquidated damages, bonuses, materials on/off site. Presentation of valuations/statements meets building project and contract documentation – including certification requirements, retentions, progress payments.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

PROCUREMENT					
Course code	CONS6010	Level	6	Credits	15
Pre-requisites		Co-requisites			
Main programme	Main programmeNew Zealand Diploma in Construction (Level 6)Other programmes		grammes		
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours150(See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop knowledge and skills about a range of procedures, types of contracts, methodologies and processes for the procurement of building projects.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Evaluate different types of tenders for building projects	6
LO2	Outline the tender process for building projects	6
LO3	Analyse and rank received tenders for building projects	6
LO4	Describe the process for unsuccessful tenders for building projects	6

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Types of contracts and selection of tender methodology: overview of contract types and tender methods – lump sum, fluctuating, fixed price, cost reimbursement, two stage tendering, target cost, design and build, guaranteed maximum price, open, selected, public private partnership. Methodology selection – format, timing, registration of interest, distribution, people involved in tender preparation, conditions of contract. Selection meets enterprise/client values, objectives, strategic vision.
LO2	•	Purpose and function of tender methods: pre-registration, sole source, invited and public tenders Key requirements of documentation assembly in terms of application for the tender process. Tender evaluation: Process and requirements; evaluating tenders in accordance with contract documentation Post-tender administration process
LO3	•	Analysis and ranking of a tender: evaluation of subcontractors – industry criteria and quotations. Coordination of components – response methods, construction methodology, health and safety plan, quality assurance plan, construction programme, budget, consultants, subcontracts.

LO4	•	Notification and process for unsuccessful tenders: return of tender deposit and
		documentation, stakeholder notification including subcontractors and suppliers.
		Debrief and evaluation.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.	100%	All	

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

PROGRAMMING						
Course code	CONS6011	Level	6	Credits	15	
Pre-requisites		Co-requisites				
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150		

The aim of this course is to develop the knowledge and skills to effectively programme and monitor activities, resources and contingencies for a medium building.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Integrate construction activities, inter-relationships and sequencing for a medium building project	5
LO2	Compare resource allocation and monitoring for a medium building project	5
LO3	Differentiate between programming of activities and resources for a medium building project	5

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Construction activities, inter-relationships and sequencing: identification and separation of activities for type of construction programme. Identification of inter-relationships in accordance with construction methodology and sequencing of activity timelines. Information is charted and presented – start/finish, float, critical path, milestones.
LO2	•	Resource allocation and monitoring: materials, plant, labour, subcontractors, finance. Decisions are based on monitoring of work activities and supports economic achievement of plans – critical path analysis.
LO3	•	Programming of activities and resources: resources assessed to balance float and resource requirements. Programming reflects progress reports, contingencies/actions, achievement of critical outcomes in accordance with project requirements.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

SAFETY AND WELLBEING						
Course code	CONS6101	Level	5	Credits	15	
Pre-requisites		Co-requisites				
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150		

The aim of this course is to develop the knowledge and skills to assist in the preparation and implementation of site safety and workforce management for a construction site.

Ngā Hua o te Ako|Learning Outcomes

Upont	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Evaluate site safety planning requirements for a construction site.	11
LO2	Analyse the wellbeing needs of a diverse construction workforce	11
LO3	Apply leadership principles to manage work on a construction site.	11

Ngā Tūtohu o te Kiko | Indicative Content

LO1	 Site safety plan development: background information – clients, contractors, trade activities, management, employees/employers, consultants, suppliers of hired equipment. Identification and selection of resources including relevant codes of practice, standards, legislation, checklists. Site safety plan implementation: implementation strategy – critical actions and steps, health and safety standards, operating procedures
LO2	 Supporting physical and mental well-being of staff Maori models of health and well-being including te whare tapa whā Pacific models of health and well-being including fonofale Promoting skills and knowledge development of staff Team building, inclusion Negotiation, mediation, conflict resolution
LO3	 Leadership styles Principles of leadership Communication, collaboration, mentoring, motivating Facilitation of team performance

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

PLANNING AND QUALITY								
Course code	CONS6102	Level	6	Credits	15			
Pre-requisites	Safety and Wellbeing	nd Wellbeing Co-requisites						
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes						
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150				

The aim of this course is to develop the knowledge and skills to manage logistics, resource allocation, construction activities and quality control for a construction site.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Analyse logistical constraints of a construction site	8
LO2	Evaluate processes for ordering and receiving materials for a construction site	8
LO3	Develop quality control strategies for a construction environment	8

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Integrated documentation, construction budget, consultants, timelines, shop drawings, variations, resources and constraints, in the context of a medium building project.
LO2	•	Identification of process and requirements. Implementation strategy – Critical actions and steps, health and safety standards, operating procedures
LO3	•	Overview of quality assurance standards. Plan development using a range of components, including provision for special requirements, contingencies and improvements. Plan is documented and communicated in accordance with enterprise/clients requirements and procedures

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based / competency-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

SITE MANAGEMENT								
Course code	CONS6103	Level	6	Credits	15			
Pre-requisites		Co-requisites						
Main programme New Zealand Diploma in Construction (Level 6)		Other programmes						
Delivery modes Provider-based Provider-based (extramural)		Total learning hours (See course delivery document for detailed breakdown.)		150				

The aim of this course is to develop the knowledge and skills to integrate site procedures and assist with the management of the construction environment for a construction project.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Evaluate site establishment requirements for a construction project	9
LO2	Analyse leadership and communication approaches that support the performance of construction site teams	9
LO3	Develop strategies to manage sub-contractor activities for a construction project	9

Ngā Tūtohu o te Kiko | Indicative Content

LO1	 Construction site procedures: enterprise and contractual requirements – responsibilities, communications, site establishment, construction operations. Site requirements – access ways, temporary buildings and services, waste limitation methods, site restrictions, health and safety management systems. Overview of site office procedures. Measurement of progress for a range of activities. Review of site procedures – identification of changes and impact on stakeholders. Bicultural considerations and procedure on significant sites, excavation and discovery of artefacts.
LO2	• Leadership, communication, the management of people, team performance, goal setting, health and safety, changing environment.
LO3	 Management of subcontractor activities: alignment of activities with contract provisions – non-conforming product, inspections, quality assurance, contract/financial/cash flow management, construction plan and programme development, communications, health and safety. Realignment of work plans – re- evaluating subcontractor programme, alternative contractual arrangements, determination of contracts. Contingencies.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based / competency-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

METHODS STATEMENTS								
Course code	CONS6104	Level	6	Credits	15			
Pre-requisites		Co-requisites						
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes						
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150				

The aim of this course is to develop the knowledge and skills to prepare method statements and progress reports for a construction project.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Develop a pre-contract construction method statement for a construction project	9
LO2	Produce a progress report for a construction project	8
LO3	Manage resources and logistics to address progress on a construction site	8

Ngā Tūtohu o te Kiko | Indicative Content

LO1	 Pre-contract construction method statements: identification of factors – site, legislation, brief, drawings, procurement documents. Evaluation of alternative methods of construction – risks, opportunities. Development of pre-contact method statements – construction process description, plant, labour, tempora works, performance, time, health and safety, sustainability, for a medium buil project. 	
LO2	 Measurement of progress for a range of activities. Review of site procedures – identification of changes and impact on stakeholders. Progress report 	
LO3	• Programme realignment - identification of critical outcomes and contingencies, realignment of progress with programme	

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

REGIONAL PROJEC	т				
Course code	CONS6105	Level	6	Credits	15
Pre-requisites		Co-requisites			
Main programme	New Zealand Diploma in Construction (Level 6)				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours15(See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to act as construction managers by studies in selected aspects of regional construction practice, emerging construction technologies and professional practice.

Ngā Hua o te Ako | Learning Outcomes

Upont	he successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Investigate selected construction aspects of a significant regional or national construction project	1-11
LO2	Evaluate the application of a selected advanced construction technology to a sector of the national construction industry.	1-11

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Application of investigation methods to a brief. Data collection, analysis, management and evaluation.			
	•	Critical reading and evaluation.			
	•	Formulation of conclusions and recommendations.			
	•	Effective communication between stakeholders.			
LO2	•	Structured report/response to a brief, presenting the investigative process, analysis and findings.			
	•	Presentation of project documentation and findings.			

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
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Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

ESTIMATION					
Course code	CONS6501	Level	5	Credits	15
Pre-requisites	Introduction to Measurement and Estimation	Co-requisites			
Main programme	New Zealand Diploma in Construction (Level 6)	Other programmes			
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to estimate costs for inclusion in tenders for medium and large building projects.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Interpret a schedule of quantities for use in a tender submission for medium and large building projects.	13
LO2	Compile unit rates, overheads, profit and on-cost items for medium and large building projects.	14
LO3	Review and compile tender information for submission for medium and large building projects.	14

Ngā Tūtohu o te Kiko | Indicative Content

LO1	• Schedule of quantities: role in preparing a tender submission. Outline main contractor/subcontractor costs and responsibilities for use in trade, preliminary and general sections of the tender.
LO2	 Unit rates and application of overheads, profit and on-cost items: build up unit rates for a range of measured items and identification of pricing components. Selection and application of labour, materials, plant. Principles, classification and application of onsite/off site overheads, profit and on-cost items – total trade costs. Market rates and conditions, cost, availability, conditions of sale/hire. Quotations – use, assessment and selection.
LO3	 Compilation of tender information: Collation of priced items, trade totals, and lump sums for preliminary and general sections in accordance with tender and contract conditions

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

MEASUREMENT 1					
Course code	CONS6502	Level	5	Credits	15
Pre-requisites	Pre-requisites Construction 1 Co-requisites				
Main programme	ramme New Zealand Diploma in Other programmes Construction (Level 6)				
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to assemble quantity surveying documentation and measure schedules of quantities for a small building project.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Interpret quantity surveying documentation relevant to specific trade sections, not including services, to measure quantities for a small building project	13
LO2	Prepare trade sections for a schedule of quantities for a small building project	13
LO3	Assemble a schedule of quantities for a small building project	13

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Quantity surveying documentation relevant to specific trade sections: documentation assembled includes excavation, concrete work, reinforcing steel, brickwork, blockwork, metal windows and doors, carpentry, joinery, roofing, plasterboard linings, floor coverings, glazing. Identification and correction of discrepancies.
LO2	•	Preparation of trade sections of a schedule of quantities
LO3	•	Assembly of schedules of quantities: items checked against documentation, schedules measured and compiled to industry standard for a range of trade sections.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

MEASUREMENT 2					
Course code	CONS6503	Level	6	Credits	15
Pre-requisites	Measurement 1	Co-requis	ites		
Main programme	New Zealand Diploma in Construction (Level 6)	Other pro	grammes		
Delivery modes	Provider-based Provider-based (extramural)	Total learning hours (See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to assemble and measure schedules of quantities from project information for medium and large buildings.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Interpret quantity surveying documentation relevant to specialist trade sections to measure quantities for medium and large buildings	13
LO2	Prepare a schedule of quantities for a medium or large building	13
LO3	Assemble a schedule of quantities for a medium or large building	13

Ngā Tūtohu o te Kiko | Indicative Content

L01	•	Quantity surveying documentation relevant to specialist trade sections: identification, assembly and integration of documentation relating to preliminary and general work. Identification and correction of discrepancies.
LO2	•	Preparation of schedules of quantities: items checked against documentation, schedules measured and compiled to industry standard for medium and large buildings
LO3	•	Assembly of schedules of quantities: items checked against documentation, schedules measured and compiled to industry standard for medium and large buildings

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes
Assessment portfolio	100%	All
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.		

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

COST PLANNING					
Course code	CONS6504	Level	6	Credits	15
Pre-requisites		Co-requisites			
Main programme	New Zealand Diploma in Construction (Level 6)	Other pro	grammes		
Delivery modes Provider-based Provider-based (extramural)		Total learning hours (See course delivery document for detailed breakdown.)		150	

The aim of this course is to develop the knowledge and skills to analyse and prepare preliminary estimates, elemental cost plans and cashflow statements for medium and large building projects.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Analyse documentation to produce estimates for a building project	12
LO2	Compile gross floor area feasibility information for a client	12
LO3	Compile preliminary estimates for a building project for a client	12
LO4	Produce cashflow statements for medium and large building projects	14

Ngā Tūtohu o te Kiko | Indicative Content

LO1	•	Documentation for estimates Preliminary estimate systems are evaluated, selected, and applied to give a complete costing in terms of available information
LO2	•	Compilation of gross floor area feasibility Methods of completing preliminary estimates are explained in terms of area. Relevant cost plan documentation is identified, assembled, and interpreted in terms of industry requirements. Including
LO3	•	Completion of preliminary estimates: methods – area, cubic metres, units of accommodation. Evaluation, selection and application of systems to compile a complete costing.
LO4	•	Completion of cashflow statements: elemental cost plan – concepts, elemental analysis rules and estimating procedures – bulk quantity units, elemental units. Identification and assembly of relevant documentation – preliminary drawings, specifications, design briefs, historical cost information. Cost fluctuations. Plan assembled to meet industry and client requirements. Cashflow statements - purpose and types. Identification, selection and format meet client requirements and industry standards.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ākonga are required to provide sufficient evidence against all learning outcomes in order to pass the course.

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change

CONSTRUCTION PROJECT						
Course code	CONS6505	Level	6	Credits	15	
Pre-requisites		Co-requis	ites			
Main programme	New Zealand Diploma in Construction (Level 6)	Other pro	ogrammes			
Delivery modes	Provider-based Provider-based (extramural)			150		

The aim of this course is to develop the knowledge and skills to act as quantity surveyors by studies in selected aspects of regional construction practice, emerging construction technologies and professional practice.

Ngā Hua o te Ako|Learning Outcomes

Upon	the successful completion of this course, ākonga will be able to	Graduate outcome alignment
LO1	Investigate selected quantity surveying aspects of a significant regional or national construction project	1-7, 12-14
LO2	Evaluate the application of a selected advanced construction technology to a sector of the national construction industry.	1-7, 12-14

Ngā Tūtohu o te Kiko | Indicative Content

LO1	• • • •	Application of investigation methods to a brief. Data collection, analysis, management and evaluation. Critical reading and evaluation. Formulation of conclusions and recommendations. Effective communication between stakeholders.
LO2	•	Structured report/response to a brief, presenting the investigative process, analysis and findings. Presentation of project documentation and findings.

Ngā Mahi Ako me te Whakaako | Learning & Teaching Activities

Learning and teaching activities will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.

Aromatawai | Assessment

Assessment in this course is achievement-based. Ākonga will be advised of all matters relating to summative assessment at the start of the course.

Assessment activity	Weighting	Learning outcomes	
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Assessment portfolio	100%	All	
Will employ a range of elements drawn from approved methods to align with the context of the learning (delivery mode, regional specific requirement, etc.) and any particular needs of the group of ākonga.			

Ngā Rauemi Ako | Learning Resources

All required and recommended resources are advised to ākonga via course outlines.

Ver No.	Approved by	Approval date	Effective from	Description of change