

New Zealand Diploma in Web Development and Design (Level 5)

MOE Code	NZ2598	Level	5	Duration	1 academic year (full-time)	Version	1
Delivery	Full-time, Intramural. Part-time option available		Intakes	Semesters 1			
Strategic purpose	<p>To provide Aotearoa New Zealand with people who are able to customise packaged web solutions, or proceed to further study in Information Technology (IT).</p> <p>The qualification is designed for those seeking to develop and apply skills in the concept and execution of web development and interface design.</p> <p>Graduates will be capable of operating within the applicable professional standards and practice, both independently and collaboratively as part of a team under broad supervision, with skills that are internationally relevant.</p> <p>Businesses, organisations and communities will benefit from having IT Professionals who can design and develop websites in all sectors of the economy and society.</p>						
Graduate profile	<p>Graduates will be able to:</p> <p>Technical skills</p> <ul style="list-style-type: none"> Determine client requirements, prepare and present solution(s) which meet client requirements. Write scripts appropriate to implement and customise a solution package using frameworks and libraries. Design and implement interfaces to enhance user experience and functionality. Select, install and configure appropriate plug-in modules to supplement functionality to meet organisational requirements. Test functionality and usability to meet client requirements. Implement, configure, and publish tested web solution to meet client requirements. <p>Core IT skills</p> <ul style="list-style-type: none"> Apply communication, personal and interpersonal skills to enhance effectiveness in an IT role. Apply professional, legal, and ethical principles and practices in a socially responsible manner as an emerging IT professional. Apply the fundamentals of information systems concepts and practice to support and enhance organisational processes and systems. Apply the fundamentals of IT technical support concepts and practice to manage hardware and software resources to meet organisational requirements. 						
Education pathway	<p>Graduates may progress to a higher level qualification in computing IT or to the digital design area. This may include the New Zealand Diploma in Software Development (Level 6) [Ref: 2604], or the New Zealand Diploma in Web Design and Production (Level 6) [Ref: 2645].</p> <p>This qualification may also equip learners to attempt optional industry certifications at the appropriate level and area of speciality.</p> <p>Learners enrolling are recommended to hold one of the following qualifications, or equivalent knowledge, skills and experience.</p> <ul style="list-style-type: none"> NCEA Level 2 or 3 with appropriate credits in digital technologies and design subjects New Zealand Certificate in Information Technology Essentials (Level 4) [Ref: 2594] New Zealand Certificate in Information Technology (Level 5) [Ref: 2595]. It is also expected it may provide a pathway from the computing qualifications [Ref: 2592 or 2593] 						
Employment pathway	Graduates of this qualification will have the skills and knowledge to be employed in an entry level role in an organisation that provides customisation of package software solutions, or in a graphic design organisation.						
Award(s)	New Zealand Diploma Web Development and Design (Level 5)						
Completion requirements	120 credits, as listed in Programme Structure. <i>This programme has been accredited by NZQA. As it does not contain unit standards from the NZQF, credits are not reported to NZQA.</i>						
Entry requirements	<p>Students enrolling are recommended to hold the New Zealand Certificate in Information Technology Essentials (Level 4), or equivalent skills, knowledge and experience.</p> <p>International students must have an IELTS overall Academic Score of 5.5 (with no band score lower than 5.0), New Zealand Certificate in English Language (Academic) (Level 4) or equivalent.</p>						
Credit recognition	<p>Credit from Recognition of Prior Learning, Credit Transfer and Unit Standard Transfer (if applicable) will be in accordance with the policy <i>Credit Recognition (05.004)</i>.</p> <p>Graduates of NZ Certificate in Information Technology (Level 5) [Ref: 2595] may be granted credit recognition toward this qualification. Learners may only need to demonstrate competence for the additional skills and knowledge required for this qualification.</p>						
Time limit for completion	5 years from initial enrolment						
Programme structure							
Code	Title					Credits	Level
Compulsory courses							
5576.5001	Information Technology Operations					15	5
5576.5002	Fundamentals of Programming and Problem Solving					15	5
5576.5003	Professional Practice					15	5
5576.5004	Enterprise					15	5
5576.5005	Interface Analysis and Design					15	5
5576.5006	Web Application Implementation					15	5
5576.5007	Application Testing and Maintenance					15	5
5576.5008 or 5576.5009	Programming Special Topic					15	5
Course prescriptors							
Title	Code	Credits	Level				
Application Testing and Maintenance	5576.5007	15	5				
Aim: To provide students with the skills to publish a web application, and produce user documentation and training material.							
Enterprise	5576.5004	15	5				
Aim: To provide students with the understanding of the development of effective IT solutions for enterprise.							
Fundamentals of Programming and Problem Solving	5576.5002	15	5				
Aim: To provide students with the fundamental knowledge of scripting to perform typical system management tasks.							

Title	Code	Credits	Level
Information Technology Operations	5576.5001	15	5
Aim: To provide students with the skills to apply the fundamental knowledge of the architecture and internal operation of a computer system.			
Interface Analysis and Design	5576.5005	15	5
Aim: To provide students with the skills to analyse and evaluate client requirements, design user interfaces, and select appropriate web technology framework.			
Professional Practice	5576.5003	15	5
Aim: To provide students with the knowledge to apply professional, legal and ethical principles and practices in a socially responsible manner, and apply communication, personal and interpersonal skills relevant to IT roles.			
Programming	5576.5008	15	5
Aim: Students will be able to write and maintain programs using appropriate design patterns, data structures and algorithms.			
Special Topic	5576.5009	15	5
Aim: To provide students with the opportunity to develop knowledge in an area of interest within their subject discipline.			
Web Application Implementation	5576.5006	15	5
Aim: To provide students with the skills to select and use appropriate development methodologies, develop user interfaces using software development standards, create scripted components to given specifications, and install and configure frameworks and applications.			