



# Diploma in Software Development (Level 7)

## COURSE DESCRIPTION

Students will do four 15-credit courses: Mobile Application Development, Cloud Application Development, Desktop Software Development and Web Application Development. They will then progress to a 60-credit Capstone Project. These projects are often industry sponsored. Students can specialize in any of the four areas of software development during their Capstone Project, often working with students from other specialisations and/or disciplines.

In Mobile Application Development, students will specialise in Android or iOS development. In Cloud Application Development students will specialise in Heroku, Azure or IBM Bluemix. In Desktop Software Development they will specialise in Java or C++ and in Web Application Development they will learn a range of technologies including SQL, HTML5, PHP, Javascript C# and .NET.

They will also gain essential soft skills such as communication and teamwork.

## COURSE CONTENT

### ● Web Application Development

Students learn the concepts and technologies used in developing web applications. To pass this course, students will design, develop, document, present and demonstrate a technical web application solution to a business problem. Technologies used may include, XHTML, SQL, CSS, PHP, JavaScript, C# and .NET.

### ● Desktop Application Development

Students learn the concepts and technologies used in developing desktop applications. To pass this course, students will design, develop, document, present and demonstrate a technical desktop application solution to a business problem, using the Test-Driven Development (Agile) methodology. Java is the programming language that is used currently, along with Eclipse as the IDE. C++ will also be introduced. Students learn C# in Web Application Development.

### ● Mobile Application Development

Students learn the concepts and technologies used in developing mobile applications. To pass this course, students will design, develop, document, demonstrate and present a mobile application solution to a business problem. Significant amount of time will be spent on User Interface (UI) Design. Currently we use Java, with Android Studio as the IDE. Students will also get some exposure to XML.

### ● Cloud Application Development

Students learn the concepts and technologies used in developing cloud-based applications. To pass this course, students will, 1) design, develop, document, demonstrate and present a cloud-based database application, 2) design a cloud-based infrastructure and 3) integrate an existing project into the cloud. Heroku and IBM Bluemix are the main platforms used currently. We may also use Windows Azure.

### ● Application Development Project

Students work in groups of three or four, and often with (or input from) students and staff from other disciplines, on a major capstone project. This project can be multi-disciplinary (e.g., a mobile app controlled coffee machine) and/or involving both hardware and software, e.g. control of a robot and the robot itself. Students will be encouraged to work on industry sponsored projects.



## WORK WITH INDUSTRY STANDARD SOFTWARE





## WHAT IS DIFFERENT ABOUT EDENZ?

1. Our goal is for graduates to gain highly paid employment.
2. We specialise in Software Development.
3. We cover a wide range of tools and environments.
4. Cutting edge curriculum that is always up-to-date.
5. Students may undertake an industry sponsored Capstone project.
6. Industry links with major employers and guest speakers.
7. Small classes with personalised learning.

## EMPLOYMENT OUTCOMES FOR OUR GRADUATES (SOFTWARE DEVELOPERS)

- Software Developers are in demand throughout the world.
- The median pay for software developers in the US in 2015 was over a US\$100,000.
- The salary in NZ ranges from 44k to 91k.
- Software developers are in the Long-term Skills Shortage List for New Zealand Immigration.

## JOBS IN TECHNOLOGY

- Analyst Programmer
- App Programmer
- Cloud App Developer
- Multimedia Specialist
- Software Tester
- Web Developer

## COURSE INFORMATION

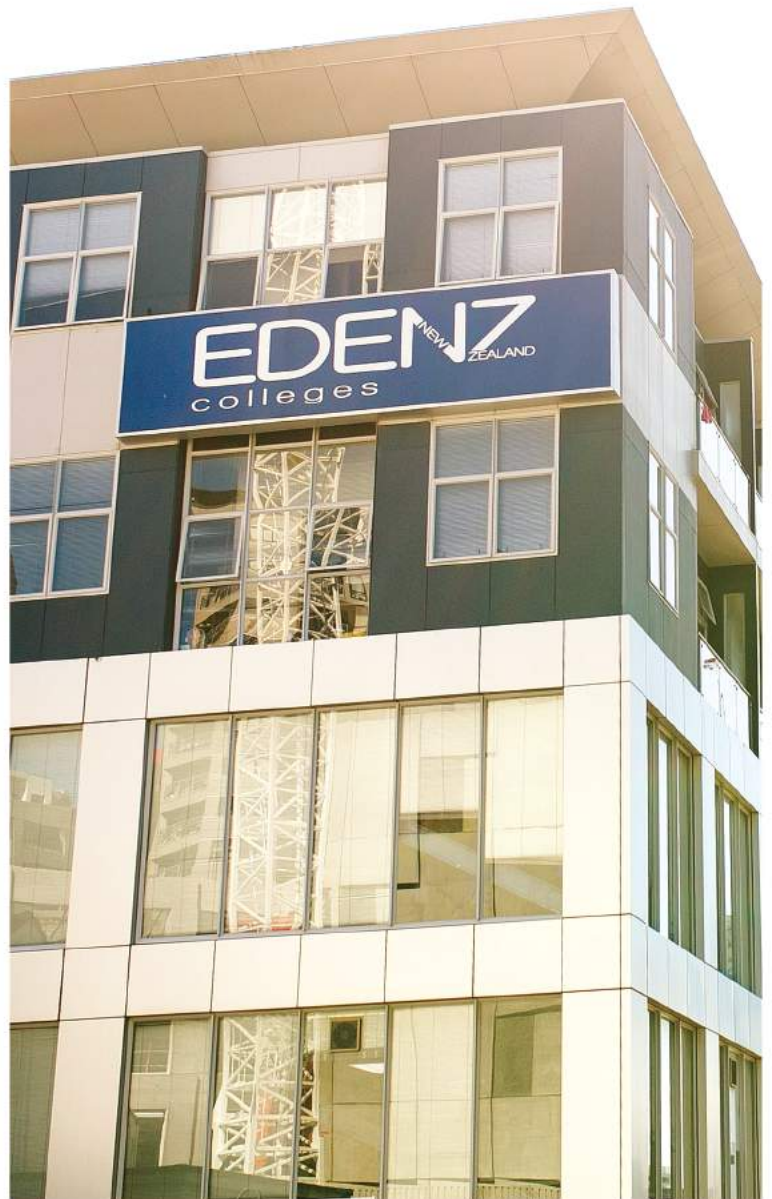
<b>Intake</b>	Feb, Apr, Jun, Sep, Nov
<b>Location</b>	AUCKLAND CITY CAMPUSES
<b>Duration</b>	1 Year
<b>Credit Value</b>	Diploma in Software Development (Level 7) is 120 credits.
<b>Programme Contact</b>	<a href="http://www.edenz.ac.nz/contact-us">http://www.edenz.ac.nz/contact-us</a> Email: <a href="mailto:welcome@edenz.ac.nz">welcome@edenz.ac.nz</a> Phone: +64 9 309 5208

## COURSE FEE

<b>Tuition Fee</b>	NZ\$ 18,000
<b>Registration</b>	NZ\$ 500
<b>TOTAL</b>	NZ\$ 18,500

## ENTRY REQUIREMENT

- Successful completion of a Degree or National Diploma in Computing Level 6 or overseas equivalent.
- A minimum of 3 years experience in computing with a qualification at Level 6 or higher, or relevant background in computing either through qualifications or experience.
- IELTS 6.0, Pearson Test, or equivalent with no band lower than 5.5.



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