



# CERTIFICATE OF INFORMATION TECHNOLOGY

## LEVEL 5



**TECHSCHOOL**  
AT NZSE

[techschool.ac.nz](https://techschool.ac.nz) | 0800 99 88 11 | [techschool@nzse.ac.nz](mailto:techschool@nzse.ac.nz)



# PROGRAMME OVERVIEW

Get through the door. This programme provides the core to pathway into all of our higher qualifications in IT or step into the industry. Understand hardware inside out. Become second-nature with software development life cycle and start designing practical IT solutions for real-world problems.

## WHAT WILL I LEARN?

### Technical Infrastructure For Today

- Install and configure common systems and application software.
- Demonstrate knowledge of networking concepts including the Internet.
- Demonstrate skills in hardware and software diagnostic testing, maintenance and technical and customer support across a range of devices.
- Apply appropriate tools and techniques to secure end user systems and support end user requirements.
- Explain past, and present ICT developments in the context of near-future ICT.
- Describe computer architectures and platforms.
- Explain operating systems basics.
- Identify and use the various number and coding systems used by computers.
- Describe data storage techniques and technologies.

### Visual Programming

- Design small computer programs as solutions to problems of low complexity.
- Implement, test, debug and document small computer programs.
- Identify the fundamental data requirements of an intermediate-level program.
- Write a complete program whilst adhering to available coding standards.
- Describe different types of data, system data objects, and operations on data.
- Create simple database designs to solve given business problems.
- Implement simple database designs to solve given business problems in a relational database using a software package and using SQL.
- Explain the meaning of the terms used in a database management Environment.

# AT A GLANCE

Course duration:  
**15 weeks**

Course credits:  
**60 credits**

Campus:  
**New Lynn  
Manukau**

Tuition  
Domestic: \$3,000 NZD  
International: \$7,500 NZD

Entry Requirements:  
**Academic Criteria:**  
Open entry with interview.  
Preference will be given to students with qualifications in Information Technology Level 3 and 4

**English Criteria:**  
IELTS Academic score of 5.5 with no band less than 5.0 or NZCEL Level 4 or equivalent.

Qualification awarded  
**NZ Certificate in  
Information Technology  
(Level 5)**

## What's next?

Refine Your Knowledge:

- NZ Diploma in I.T. Technical Support (Level 5)
- Diploma in I.T. Software Development (Level 6)

Get Employed:

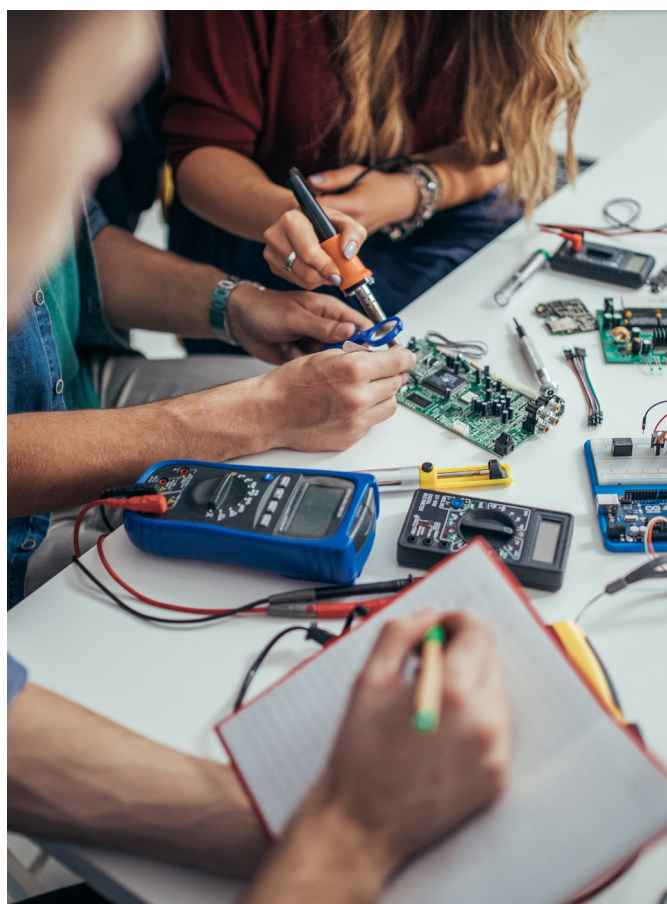
- Help Desk Technical Support
- Junior Administrator Assistant
- Network Configuration Technician
- PC Repair Technician
- Hardware Support Technician

## Business Technologies

- Identify and describe the functions, structure and cultural context of business including the impact of IT on business.
- Explain the interaction of software and databases within the computer system model.
- Define the parts of an information system model.
- Describe Information management and retrieval processes and issues including privacy and security responsibilities.
- Apply basic principles of media design, web design, and interaction design including Human Computer Interaction and accessibility.
- Define Internet services and e-Commerce models.
- Apply problem solving and systems thinking in the recommendation of ICT solutions

## Technology in a Digital World

- Demonstrate competence in understanding key technical issues concerning the operation, implementation, and application of digital systems.
- Critically appraise past, present and future application of digital systems with particular emphasis on their impact on society in general and also upon the individual.
- Formulate personal ethical positions in relation to the development, manufacture, application, expansion and disposal of digital systems.
- Demonstrate competence in core academic skills including formal writing, critical analysis, the referencing of sources, the creation of diagrams, equations, etc., the use of library resources and selective use of online sources.



# PROGRAMME PATHWAYS

NZ Certificate of  
Information Technology  
(Level 5)  
(15 weeks)

SOFTWARE  
& CLOUD **OR** HARDWARE

NZ Diploma of  
I.T. Software  
Development  
(Level 6)  
(2 years)

NZ Diploma of  
I.T. Technical  
Support  
(Level 5)  
(1 year)

Diploma of  
Networking  
Technologies  
(Level 6)  
(1 year)

Diploma of Applied  
Networking & Cloud  
Technologies  
(Level 7)  
(1 year)

Bachelor of  
Information  
Sciences  
(AUT & Massey  
University)

Postgraduate Diploma of  
Information Technology  
(Level 8)  
(1 year)



# TECHSCHOOL AT NZSE

0800 99 88 11 or 09 827 6100

## New Lynn Campus

3033 Great North Road  
New Lynn, Auckland  
New Zealand

## Avondale Campus

2171 Great North Road  
Avondale, Auckland  
New Zealand

## Manukau Campus

6 Osterley Way  
Manukau, Auckland  
New Zealand

## CBD Campus

Level 2 & 3  
60 Federal Street  
Auckland CBD  
New Zealand

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