



northwest 

# ICT50220

## DIPLOMA OF INFORMATION TECHNOLOGY (CYBER SECURITY)

**CRICOS COURSE CODE: 105257B**

### COURSE DETAILS

Provider Name	Northwest Pty Ltd
RTO Code	91781
CRICOS Code	03256G
Course Code	ICT50220
Delivery location of course	Level 2, 531 George Street, Sydney NSW 2000 Level 2, 77 – 79 York Street, Sydney NSW 2000 Level 2, 66-68 Grenfell Street, Adelaide SA 5000 Level 9, 108 Lonsdale Street, Melbourne VIC 3000
Delivery mode	Face to face (Classroom based)
Duration	104 weeks, including 88 study weeks and 16 weeks of breaks
Specialization (if any)	Cyber Security
Study load	20 hours per week in the classroom
Estimated Self-Study Hours	5 hours per week (may be more or less depending on learner's pre-existing skills and knowledge)



NATIONALLY RECOGNISED  
TRAINING

### FEES STRUCTURE

**\$14,000**

TUITION FEES

**\$750**

NON-TUITION FEES

**\$14,750**

TOTAL FEES

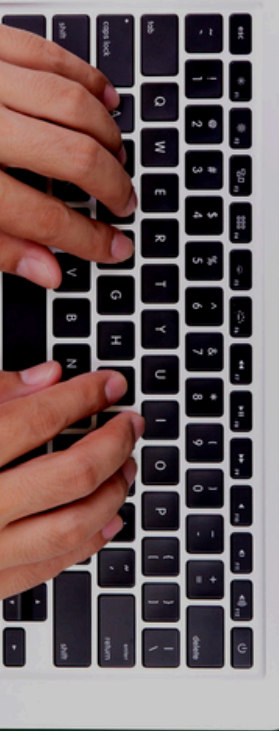
## ICT50220 DIPLOMA OF INFORMATION TECHNOLOGY

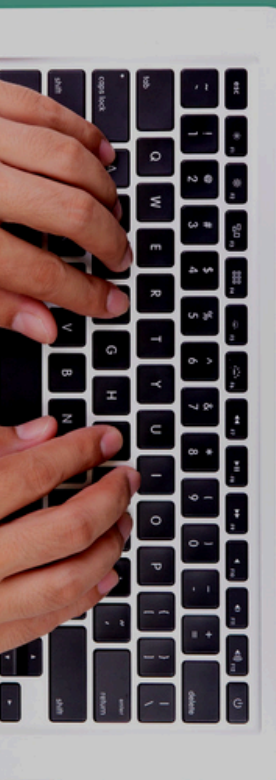
This qualification reflects the role of individuals in a variety of information and communications technology (ICT) roles who have established specialised skills in a technical ICT function.

Individuals in these roles carry out complex tasks in a specialist field, working independently, leading a team or a strategic direction of a business. They apply their skills across a wide range of industries and business functions, or as a business owner (sole trader/contractor).

The skills required for these roles may include, but are not restricted to:

- Advanced networking: configuring and managing virtual computing environments, and security within ICT networks
- Advanced programming: applying intermediate and advanced programming skills, managing data and building advanced user interfaces to manage organisational requirements
- Back end web development: developing and maintaining website information architecture and data
- Business analysis: designing and implementing technical requirements, quality assurance processes and contingency plans for businesses
- Cloud architecture: developing, improving and designing cloud infrastructure, including disaster recovery plans
- Cloud engineering: building, implementing and managing cloud infrastructure and virtual networks
- Cyber security: protecting sensitive data and information through security architecture and developing disaster recovery and contingency plans
- Database and data management: creating, designing and monitoring systems that store data and optimise organisational knowledge management
- Front end web development: designing dynamic and complex websites, user experience solutions and documents using extensible mark-up languages
- Game art and design: creating complex 2D and 3D modelling and animation software through scripts and storyboards
- Game programming: creating complex 2D and 3D interactive games and media, building graphical user interfaces and applying artificial intelligence in game development
- Systems administration: reviewing maintenance procedures and support to help troubleshoot system applications
- Systems analysis: modelling and testing data objects, data processes and preferred ICT system solutions
- Telecommunications network engineering: managing logistics, organisational specifications, regulations and legislative requirements across network projects.





## ***COURSE ENTRY REQUIREMENTS:***

There are no pre-requisites for any of the units of competency contained within it. This course is available to all international students and Northwest Pty Ltd. requires that students are able to provide evidence that they:

- Have demonstrated an IELTS level at score of least 6.0 or equivalent (test results must be no more than 2 years old) or demonstration of successful completion of at least General English at Advanced Level or English for Academic Purposes Upper Intermediate level.
- Have a suitable level of language, literacy and numeracy to complete course requirements with or without additional support that Northwest Pty Ltd. is able to provide.
- Have successfully completed Australian year 10 or equivalent.
- Are at least at age of 18 on the date of course commencement.

Please Note: All the students commencing this course are required to complete LLN test on the orientation day to assist Northwest Pty Ltd. to identify student's needs for additional support during their study with Northwest Pty Ltd.



### **ADDITIONAL ENTRY REQUIREMENTS:**

- Student must have access to working PC or laptop with a configuration suitable to meet study requirements. Please seek your Trainer/Assessor assistance in this regard.
- Student must have sound digital literacy and access to working internet.
- Student must be able to attend scheduled theory classes and classes to be conducted in simulated environment face to face only.

### **ORIENTATION:**

New student Orientation will be done face to face only. New students will receive an e-mail and call from the Admissions department on Friday, prior to their date of commencement with all necessary further information and instructions. If you have any questions regarding this process, please contact [+61449955272](tel:+61449955272) or [sso@nortwest.edu.au](mailto:sso@nortwest.edu.au). Please email or call the student administration should you require any additional support.

### **CLASSES:**

All classes will be conducted face to face at the student's respective campus of enrollment.

### **ASSESSMENT:**

Assessment tasks will vary for each unit of competency. The Trainer or Assessor will explain the assessment requirements and due dates in class. Late submission fees applies if the assessment is not submitted on or before the due date.

### **SUPPORT:**

All staff at Nortwest Pty Ltd will continue to work and will continue to provide the students with the support any individual may need. The student will be remained connected with each Trainer/Assessor through regular class participation to assist them continuing their studies.



## PATHWAYS

*The further study pathways available to students who undertake this qualification include:*

- ICT60220 Advanced Diploma of Information Technology (Cyber security).
- Or any other specialisation within ICT60220 Advanced Diploma of Information Technology.
- Higher education degree in Cyber Security provided learner meet the entry requirements of the proposed qualification at other higher education provider.

*Employment pathways:*

**1** CYBER SECURITY ADMINISTRATOR

**2** NETWORK SECURITY ANALYST

**3** NETWORK SECURITY SPECIALIST

**4** E-SECURITY SPECIALIST

**5** ICT SECURITY SPECIALIST

**6** IT SECURITY ADMINISTRATOR

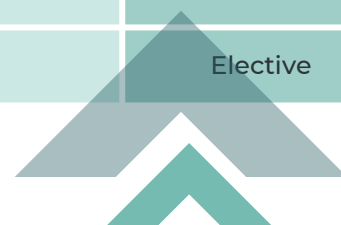
**7** IT SECURITY ANALYST

**8** IT SECURITY SPECIALIST

## **COURSE STRUCTURE:**

A total of 20 Units (6 Core and 14 electives) must be completed and deemed competent to achieve the qualification ICT50220 Diploma of Information Technology (Cyber Security). Participants who achieve competency in any unit/s will receive a Statement of Attainment (provided USI is verified) for that unit/s without completing all 20 units in the qualification. Students completing all the required units of competency will attain full qualification.

<b>CODE</b>	<b>TITLE</b>	<b>CORE/ ELECTIVE</b>
<b>BSBCRT512</b>	Originate and develop concepts	Core
<b>BSBXTW401</b>	Lead and facilitate a team	Core
<b>BSBXCS402</b>	Promote workplace cyber security awareness and best practices	Core
<b>ICTICT517</b>	Match ICT needs with the strategic direction of the organisation	Core
<b>ICTICT532</b>	Apply IP, ethics and privacy in ICT environments	Core
<b>ICTSAS527</b>	Manage client problems	Core
<b>ICTICT523</b>	Gather data to identify business requirements	Elective
<b>BSBPMG532</b>	Manage project quality	Elective
<b>BSBPMG536</b>	Manage project risk	Elective
<b>ICTPMG505</b>	Manage ICT projects	Elective
<b>ICTSAD508</b>	Develop technical requirements for business solutions	Elective
<b>ICTICT526</b>	Verify client business requirements	Elective
<b>ICTSAD509</b>	Produce ICT feasibility reports	Elective
<b>ICTICT443</b>	Work collaboratively in the ICT industry	Elective
<b>ICTCYS407</b>	Gather, analyse and interpret threat data	Elective
<b>ICTCYS610</b>	Protect critical infrastructure for organisations	Elective
<b>ICTCYS613</b>	Utilise design methodologies for security architecture	Elective
<b>ICTSAS524</b>	Develop, implement and evaluate an incident response plan	Elective
<b>ICTSAS526</b>	Review and update disaster recovery and contingency	Elective
<b>ICTWEB514</b>	Create dynamic web pages	Elective



## **ASSESSMENT METHODOLOGY:**

Assessment methods used for this qualification are varied and will provide a range of ways for individuals to demonstrate that they have met the required outcomes. Assessment methods may include:



**WRITTEN  
QUESTIONS**



**PROJECTS**



**PRESENTATIONS**



**REPORT  
WRITING**



**ROLE PLAYS/  
OBSERVATIONS**



**PRACTICAL  
DEMONSTRATION  
AND OBSERVATIONS**

At the beginning of each unit, your Trainer and Assessor will outline the assessment tasks that must be completed.

## **RECOMMENDED TEXTBOOKS:**

- Computer Networks. 5th edition. Tanenbaum, Andrew S. & Wetherall, David J. Pearson, 2010
- Computer Networking: A top-down approach. 7th edition. Kurose, James and Ross, Kaith. Pearson, 2016.
- Cryptography and Network Security: Principles and Practice. 7th edition. Stallings, William. Pearson, 2016.
- Threat Modelling: Designing for security. 1st edition. Shostack, Adam. Wiley, 2014

## **FURTHER INFORMATION:**

For further details, please refer to International Student Handbook for all related policies and procedures (policies and procedures also available on [www.nortwest.edu.au](http://www.nortwest.edu.au)) and other important information related to international students.

Please contact the Administration Manager for further information at

 [applynow@nortwest.edu.au](mailto:applynow@nortwest.edu.au)

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