ICT50220
DIPLOMA OF INFORMATION TECHNOLOGY (CYBER SECURITY)

CRICOS COURSE CODE: 105257B

COURSE DETAILS

Provider Name	**Nortwest Pty Ltd t/a City Institute**
RTO Code	**91781**
CRICOS Code	**03256G**
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**
Delivery mode	**Face to face (Classroom based)**
Duration	**104 weeks, including 88 study weeks and 16 weeks of holidays.**
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

TOTAL COURSE FEE: AUD 25,000

TUITION FEE: AUD 24,000

MATERIAL FEE: AUD 250

APPLICATION FEE: AUD 1,250 *(NON-REFUNDABLE)*

(Application fee is non–refundable under all circumstances. Please refer to Nortwest Pty Ltd.'s refund policy and procedure for further details)

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.
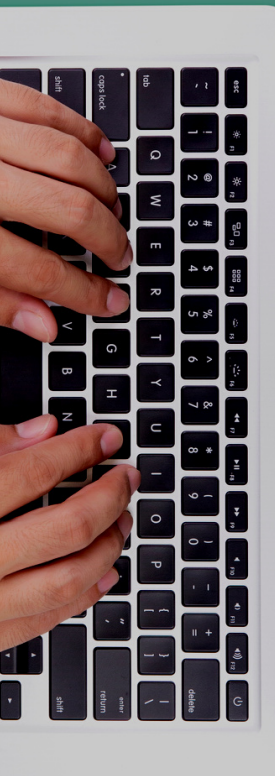
COURSE ENTRY REQUIREMENTS:

ENTRY TO THIS QUALIFICATION IS LIMITED TO THOSE WHO:

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

- Have demonstrated an IELTS level at score of least 5.5 or equivalent (test results must be no more than 2 years old) or demonstration of successful completion of at least General English at Upper Intermediate 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 Nortwest 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 Nortwest Pty Ltd. to identify student's needs for additional support during their study with Nortwest Pty Ltd.

COVID-19 VARIATION TO DELIVERY AND ASSESSMENT STRATEGY

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 (if schedule during Covid-19 is varied from original schedule).
- Where classroom visit is required to conduct the assessments in the compliant way and in accordance with Standard 1.8 of SRTO 2015, Nortwest Pty Ltd. would not be allowing more than 4 learners (or one group, whichever is less) in the class ensuring 4 sqm social distancingis maintained.

During COVID-19 (coronavirus) outbreak, Nortwest Pty Ltd. will use a flexible delivery mode for training and assessment, providing training package requirements allow for this. We would ensure that all regulatory requirements are met with as little disruptions possible. As circumstances change and restrictions are eased, these temporary arrangements will be reviewed, and enrolled students will be notified accordingly. Nortwest Pty Ltd. aims to review any changes in circumstances before commencement of each term so that it has least possible impact on students and course delivery.

ORIENTATION:

New student Orientation will be done via phone, e-mail and zoom. New students will receive an e- mail and call from the Admissions department on the Friday, prior to their date of commencement with all necessary further information and instructions. If you have any questions regarding this process, please contact +61 451 915 609 or applynow@nortwest.edu.au. Please email or call the student administration should you require any additional support.

CLASSES:

During Covid-19, Nortwest Pty Ltd will transition to an online learning environment, this means there will be no face to classes running, unless required to be in simulated environment specifically in class or covid-19 restrictions are eased and/or state government allow to return to full onsite learning. If any student require assistance with their online learning environment, student will notify their trainer and assessor where trainer/assessor will provide them with further guidance.

ONLINE OPTIONS:

The online learning environment will be supported by a range of resources that will vary between units but may consist of learning summaries, video recordings or YouTube videos, and extra documents to aid student's learning. All training staff will be available online at scheduled class times to guide and support the student through their studies. The online learning environment will be available through using Zoom.

ASSESSMENT:

Assessment tasks will vary for each unit of competency, but some of these may be moved online. Some assessment tasks may also be delayed or deferred to a later date pending the situation with COVID-19. The trainers are required to communicate with students for unit specific information. The best way to do this is through Zoom or through email.

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. Nortwest Pty Ltd will also provide online academic and language support and student support staff are always here to help.

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.

CODE	TITLE	CORE/ELECTIVE
BSBCRT512	Originate and develop concepts	Core
BSBXTW401	Lead and facilitate a team	Core
BSBXCS402	Promote workplace cyber security awareness and best practices	Core
ICTICT517	Match ICT needs with the strategic direction of the organisation	Core
ICTICT532	Apply IP, ethics and privacy in ICT environments	Core
ICTSAS527	Manage client problems	Core
ICTICT523	Gather data to identify business requirements	Elective
BSBPMG532	Manage project quality	Elective
BSBPMG536	Manage project risk	Elective
ICTPMG505	Manage ICT projects	Elective
ICTSAD508	Develop technical requirements for business solutions	Elective
ICTICT526	Verify client business requirements	Elective
ICTSAD509	Produce ICT feasibility reports	Elective
ICTICT443	Work collaboratively in the ICT industry	Elective
ICTCYS407	Gather, analyse and interpret threat data	Elective
ICTCYS610	Protect critical infrastructure for organisations	Elective
ICTCYS613	Utilise design methodologies for security architecture	Elective
ICTSAS524	Develop, implement and evaluate an incident response plan	Elective
ICTSAS526	Review and update disaster recovery and contingency	Elective
ICTWEB514	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. 1 st edition. Shostack, Adam. Wiley, 2014

FURTHER INFORMATION:

For all further details, please refer to International Student Handbook on for all related policies and procedures (policies and procedures also available on www.nortwest.edu.au) and other important information related to international students including Covid-19, living cost, life and study in Sydney, etc.

Please contact the Administration Manager for further information at

✉ applynow@nortwest.edu.au

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