

Advanced Diploma of Information Technology

Description

This qualification provides high level information and communications technology (ICT), process improvement and business skills and knowledge to enable an individual to be effective in senior ICT roles within organisations.

Job roles

Job roles and titles vary across different sectors. Possible job titles relevant to this qualification include: ICT projects manager, developer-cloud computing services/strategies for businesses, web programmer.

The following table contains a summary of the employability skills for this qualification. The employability skills facets described here are broad industry requirements	

Employability skill	Industry/enterprise requirements for this qualification include:
Communication	 consulting, questioning, clarifying and evaluating information interpreting customer needs negotiating budgets and plans and then re-developing as required to meet organisational needs negotiating with internal and external stakeholders utilising excellent interpersonal skills, and producing a wide range of reports and making presentations as required
Teamwork	 briefing various personnel on their roles and responsibilities regarding the implementation of the marketing plan coordinating resources and developing systems to manage team and individual performance defining performance measures and working collaboratively with team members identifying performance gaps and taking remedial action for underperformance
Problem-solving	 assessing financial viability of new opportunities and matching organisational capability with market needs collecting and analysing data comparing and contrasting data

Employability Skills - Qualification Summary



	conducting situational analyses
	 developing and managing risk and contingency plans
	developing strategies for improvement
	 performing cost benefit analyses, budgeting, assessing and managing risk
Initiative and enterprise	evaluating and improving market performance
	 identifying strengths and opportunities within organisation's projected capabilities and resources
Planning and organising	collecting, collating and analysing information using appropriate workplace business systems
	developing customer acquisition and retention strategies
	 developing systems that are flexible and responsive to changing circumstances
	 evaluating processes and making changes as required
	planning and managing resource acquisition and deployment within budgetary constraints
	planning for contingencies
Self-management	applying discretion and judgement within complex environments
	managing own time and performance
	 using judgement in planning and in the selection and allocation of resources
	 working within organisational policies and procedures and legislative requirements
Learning	coaching and mentoring others to acquire new knowledge and skills
	providing learning and development opportunities
Technology	creating presentations using a range of media
	 using computerised systems, software and telecommunication devices
	using technology to assist with the management of information and to assist the planning process
	 using technology to record and generate ideas



Duration: 9 months + 6 months Industrial Attachment

Qualification Entry Requirements

Academic

- AAC Diploma of Information Technology OR
- Equivalent Diploma from any other PEIs in relevant field OR
- Obtained at least D for any GCE A-Level subject OR
- 12 years of formal education or equivalent

English Proficiency

- IELTS 5.5 OR
- AAC EFL Level 5 or equivalent.

Students without formal English qualifications will be given a placement test to determine their level of proficiency.

Minimum age: 17 years old

^{**}Students who have completed Diploma of Information Technology will be granted exemption for 3 modules: DIT105 Web Programming; DIT114 Project Management; DIT115Workplace Cyber Security from Diploma of Information Technology (ICT50220).



Qualification Modules

Full Time

#	Code	Module Name	Competency Code*	Competency Name*	Face to Face Contact Hours	Independent Learning Hours	Assessment Preparation Hours
		Web	ICTWEB513	Build dynamic websites			
1	DIT105	Programming	ICTWEB514	Create dynamic web pages	45	40	40
2	DIT114	Project Management	ICTPMG609	Plan and direct complex ICT projects	45	40	40
			ICTPMG606	Manage ICT project complexity		.0	.0
3	DIT115	Workplace Cyber Security	BSBXCS402	Promote workplace cyber security awareness and best practices	45	40	40
		Cloud Computing	ICTICT508	Evaluate vendor products and equipment			
4	ADIT202		ICTPRG604	Create cloud computing services.	45	40	40
			ICTNWK616	Managing security, privacy and compliance of cloud service deployment			
5	ADIT204	ICT Copyrights and Ethics	ICTICT610	Manage copyright, ethics and privacy in an ICT environment	45	40	40
6	ADIT206	Manage ICT Team	BSBWOR502	Lead and manage team effectiveness	45	40	40
U	ADITZUO		ICTICT602	Develop contracts and manage contracted performance			



	•	de and Competency ation Technology (F		from the 'ICT60220 - Advanced	Total 1125 lear	ning hours (Exc chment)	luding
					405	360	360
10	ADIT207	Industrial Attachment	-	-	-	970	-
9	ADIT210		ICTCYS608	Perform cyber security risk assessments			
Q		Cyber Security Assessments	ICTCYS601	Create cyber security standards for organisations	45	40	40
	ADIT209		ICTICT611	Develop ICT strategic business plans			
8		ICT Strategic Business Plans	ICTSAD609	Plan and monitor business analysis activities in an ICT environment	45	40	40
7	ADIT208	Advanced Programming	ICTPRG547	Apply advanced programming skills in another language.	45	40	40

Diploma of Information Technology (Release 3)'.

** The Industrial Attachment will be a compulsory and integral module of the ADIT. If a student is unable to participate in the Industrial Attachment module due to circumstances beyond the control of the student or the College, like non-approval of the Training Work Permit by the Ministry of Manpower, the student will be required to complete a Research-Based Project with the submission of a report to be considered for graduation for the course. The maximum duration to complete the project work will be three (3) months.



Part Time

#	Code	Module Name	Competency Code*	Competency Name*	Face to Face Contact Hours	Independent Learning Hours	Assessment Preparation Hours
		Web	ICTWEB513	Build dynamic websites			
1 2 3 4	DIT105	Programming	ICTWEB514	Create dynamic web pages	30	55	40
2	DIT114	Project Management	ICTPMG609	Plan and direct complex ICT projects	30	55	40
			ICTPMG606	Manage ICT project complexity	30	55	40
3	DIT115	Workplace Cyber Security	BSBXCS402	Promote workplace cyber security awareness and best practices.	30	55	40
		Cloud Computing	ICTICT508	Evaluate vendor products and equipment			
4	ADIT202	DIT202	ICTPRG604	Create cloud computing services			
			ICTNWK616	Managing security, privacy and compliance of cloud service deployment	30	55	40
5	ADIT204	ICT Copyrights and Ethics	ICTICT610	Manage copyright, ethics and privacy in an ICT environment	30	55	40
	ADITOGO	Manage ICT Team	BSBWOR502	Lead and manage team effectiveness			
6	ADIT206		ICTICT602	Develop contracts and manage contracted performance	30	55	40
7	ADIT208	Advanced Programming	ICTPRG547	Apply advanced programming skills in another language.	30	55	40



	* Competency Code and Competency Name are taken from the 'ICT60220 - Advanced Diploma of Information Technology (Release 3)'.				Total 1125 learning hours (Excluding Industrial Attachment)			
					270	495	360	
10	ADIT207	Industrial Attachment	-	-	-	970	-	
9	ADIT210	Cyber Security Assessments	ICTCYS601	Create cyber security standards for organisations Perform cyber security risk assessments	30	55	40	
8	ADIT209	ICT Strategic Business Plans	ICTSAD609	Plan and monitor business analysis activities in an ICT environment Develop ICT strategic business plans	30	55	40	

^{**} The Industrial Attachment will be a compulsory and integral module of the ADIT. If a student is unable to participate in the Industrial Attachment module due to circumstances beyond the control of the student or the College, like non-approval of the Training Work Permit by the Ministry of Manpower, the student will be required to complete a Research-Based Project with the submission of a report to be considered for graduation for the course. The maximum duration to complete the project work will be three (3) months.

	Synopsis								
Module Name	Competency Code*	Competency Name*	Description						
Web Programming	ICTWEB513	Build dynamic websites	This unit describes the skills and knowledge required to analyse and design websites to meet technical requirements.						
	ICTWEB514	Create dynamic web pages	This unit describes the skills and knowledge required to analyse and design websites to meet technical requirements.						



Project Management	ICTPMG609	Plan and direct complex ICT projects	This unit describes the skills and knowledge required to identify, plan, control and finalize complex information and communications technology (ICT) projects
	ICTPMG606	Manage ICT project complexity	This unit describes the skills and knowledge required to implement quality assurance processes using quality control data to ensure continuous improvement for the benefit of current and future information and communications technology (ICT) projects
Workplace Cyber Security	BSBXCS402	Promote workplace cyber security awareness and best practices	This unit describes the skills and knowledge required to promote cyber security in a work area.
	ICTICT508	Evaluate vendor products and equipment	This unit describes the skills and knowledge required to evaluate and test a range of vendor products and equipment against a client's business requirements.
Cloud Computing	ICTPRG604	Create cloud computing services	This unit describes the skills and knowledge required to design, build, test and deploy web services and cloud computing applications to specifications.
	ICTNWK616	Managing security, privacy and compliance of cloud service deployment	This unit describes the skills and knowledge required to manage cloud security controls, and privacy and legal compliance, when implementing cloud services for an enterprise.
ICT Copyrights and Ethics	ICTICT610	Manage copyright, ethics and privacy in an ICT environment	This unit describes the skills and knowledge required to manage the issues of copyright and professional and ethical conduct in a team, as well as to ensure that personal information of stakeholders is handled in a confidential and



			professional manner.
	BSBWOR502	Lead and manage team effectiveness	This unit describes the skills and knowledge required to lead teams in the workplace and to actively engage with the management of the organization.
Manage ICT Team	ICTICT602	Develop contracts and manage contracted performance	This unit describes the skills and knowledge required to negotiate and document contractual arrangements between clients and vendors, and to monitor and manage performance against agreed contractual obligations.
Advanced Programming	ICTPRG547	Apply advanced programming skills in another language.	This unit describes the skills and knowledge required to undertake advanced level programming tasks using another programming language. The language may be an object-oriented language
ICT Strategic Business Plans	ICTSAD609	Plan and monitor business analysis activities in an ICT environment	This unit describes the skills and knowledge required to establish and manage Information and Communications Technology (ICT) business analysis activities in a medium-to-large organisation.
	ICTICT611	Develop ICT strategic business plans	This unit describes the skills and knowledge required to create strategic in alignment with organisational Information and Communications Technology (ICT) goals and strategies.
Cyber Security Assessments	ICTCYS601	Create cyber security standards for organisations	This unit describes the skills and knowledge required to research, plan and implement cyber security standards for an organisation.



	ICTCYS608	Perform cyber security risk assessments	This unit describes the skills and knowledge required to conduct a risk assessment and analysis in a business environment. The risk assessment requires the identity and alignment of an organisation's operating environment to their required risk register and the realignment of their operations.
Industrial Attachment	ADIT207	Industrial Attachment	The industrial attachment allows the student to apply the concepts and principles gained in the Advanced Diploma of Information Technology. Students will undertake an internship programme with IT companies and companies with IT departments exposed to network servers, software, and hardware development, supporting IT infrastructure and system security, web programming, or any other areas in the IT sector related to their interest or area of specialisation.



Assessment Arrangements

Competency Code	Competency Name		Practical	Activities	Observation	Role play	Case studv/Scenario	Questions and Answers	Project/Report	Presentation,	Portfolio/Journal	Online
ICTWEB513	Build dynamic websites		✓	✓			✓	✓	✓		✓	
ICTWEB514	Create dynamic web pages		✓	✓			✓	✓	✓		✓	
ICTPMG609	Plan and direct complex ICT projects		✓	✓			✓	✓	✓		✓	
ICTPMG606	Manage ICT project complexity				✓		✓	✓	✓		✓	
BSBXCS402	Promote workplace cyber security awareness and best practices			✓	✓	✓	✓	✓	✓			
ICTICT508	Evaluate vendor products and equipment			✓			✓	✓	✓		✓	
ICTPRG604	Create cloud computing services		✓	✓			✓	✓	✓		✓	
ICTNWK616	Managing security, privacy and compliance of cloud service deployment		√				✓	✓	✓		✓	
ICTICT610	Manage copyright, ethics and privacy in an ICT environment					✓	✓	✓	✓			
BSBWOR502	Lead and manage team effectiveness			✓		✓	✓	✓	✓			
ICTICT602	Develop contracts and manage contracted performance			✓	✓	✓	✓	✓	✓			
ICTPRG547	Apply advanced programming skills in another language.		✓	✓			✓	✓	✓		✓	
ICTSAD609	Plan and monitor business analysis activities in an ICT environment			✓	✓	✓	√	√	✓			



ICTICT611	Develop ICT strategic business plans		✓	✓	✓	✓	✓	✓		
ICTCYS601	Create cyber security standards for organisations	✓	✓			✓	✓	✓		
ICTCYS608	Perform cyber security risk assessments	✓	✓			✓	✓	✓		
ADIT207	Industrial Attachment							✓		

The assessment objectives tested in these modules are broadly categorised in the following hierarchical order:

- 1. Knowledge: Exhibit memory of previously learned materials by recalling facts, terms, basic concepts and answers
- 2. Comprehension: Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating the main ideas
- 3. **Application:** Using new knowledge. Solve problems in new situations by applying acquired knowledge, facts, techniques and rules in a different way
- 4. Analysis: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations
- **5. Evaluation:** Present and defend opinions by making judgments about information, validity of ideas or quality of work based on a set of criteria
- 6. Synthesis: Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions

Specification Grid

The relationship between the assessment objectives and components of the scheme of assessment is as follows



Knowledge	Comprehension	Application	Analysis	Evaluation	Synthesis
10%	20%	20%	20%	20%	10%

The assessment objectives are weighted to give an indication of their relative importance.

They are not intended to provide a precise statement of the number of marks in particular skills.

Code	Name of the module	Assessment 1	Assessment 2
DIT105	Web Programming	50%	50%
DIT114	Project Management	50%	50%
DIT115	Workplace Cyber Security	50%	50%
ADIT202	Cloud Computing	50%	50%
ADIT204	ICT Copyrights and Ethics	50%	50%
ADIT206	Manage ICT Team	50%	50%
ADIT208	Advanced Programming	50%	50%
ADIT209	ICT Strategic Business Plans	50%	50%
ADIT210	Cyber Security Assessments	50%	50%
ADIT207	Industrial Attachment	100%	NA

Graduation Requirement:

In order to be awarded the Advanced Diploma of Information Technology, a student must obtain at least a **Pass Grade** in all the modules within the eligibility period of 2 years from the original completion date.