



KIK Academy

**ICT50220 Diploma of Information Technology
(Advanced Programming)**



ICT50220 Diploma of Information Technology (Advanced Programming)

Introduction

KIK Academy (RTO 469525) is owned by KIK Innovation Ltd, who operate 42 Adelaide and deliver the ICT50220 Diploma of Information Technology (Advanced Programming).

This Nationally Recognised Training qualification reflects the role of an individual in a variety of information and communication technology (ICT) roles who have established specialised skills in software development.

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

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

- applying intermediate and advanced programming skills
- managing data and building advanced user interfaces to manage organisational requirements

Employment opportunities

- Analyst programmer support
- Assistant programming developer
- Assistant software applications programmer
- Assistant software developer
- Database support programmer
- Web support programmer



Units of Competency

The ICT50220 Diploma of Information Technology (Advanced Programming) comprises 20 units of competency. KIK Academy have organised these units of competency into relevant topic clusters relating to shared skills and knowledge and the 42 pedagogy. This results in an efficient delivery of training and assessment and a seamless structure of delivery into one experience for the benefit of 42 students.

To be issued the qualification the student must be assessed as competent in 20 units of competency. These units of competency comprise six core units and 14 elective units.

The selection of these units of competency and the course structure has been confirmed through industry engagement undertaken by KIK Academy.

The ICT50220 Diploma of Information Technology (Advanced Programming) is delivered online following the course structure outlined below:

Topic	Unit(s)	Core/Elec	Months
1.Web Discovery	ICTPRG430 Apply Introductory object- oriented language skills	Elective	1
	ICTPRG437 Build a user interface	Elective	
	ICTWEB441 Produce basic client-side script	Elective	
2.Build a library of code	ICTPRG547 Apply advanced programming skills in another language	Advanced Programming Specialisation Elective	2
3. Production Environments	ICTPRG534 Deploy applications to production environments	Elective	3
4. Application Development	ICTPRG546 Validate application designs against specifications	Elective	4



5. Functional IT Management	BSBXCS402 Promote workplace cyber security awareness and best practices	Core	5
	ICTICT532 Apply IP, ethics and privacy policies in ICT environments	Core	
	ICTICT517 Match ICT needs with the strategic direction of the organisation	Core	
6. Create a 2D game	ICTPRG535 Build advanced user interfaces	Advanced Programming Specialisation Elective	6
7. Lead and facilitate a team	BSBXTW401 Lead and facilitate a team	Core	7
8. Dynamic web pages	ICTWEB430 Produce server-side script for dynamic web pages	Elective	8-9
9. Create a 3D game	ICTPRG549 Apply intermediate object-oriented language skills	Advanced Programming Specialisation Elective	10-11
10. Practical ICT Solutions	BSBCRT512 Originate and develop concepts	Core	12
	ICTSAS527 Manage client problems	Core	
	ICTPRG542 Review developed software	Elective	
11. Create mashups	ICTPRG538 Create mashups	Elective	13



12. Data Management	ICTPRG554 Manage data persistence using noSQL data stores	Advanced Programming Specialisation Elective	14
13. Mastering MVC	ICTPRG556 Implement and use a model view controller framework	Advanced Programming Specialisation Elective	15
14. Transcendence	ICTWEB517 Create web-based programs	Elective	16-17

National recognition

On successfully completing the training and assessment, the ICT50220 Diploma of Information Technology (Advanced Programming) will be issued. A transcript listing all units of competency will also be issued. The qualification and units of competency are nationally recognised and provide individuals with a valuable qualification that can be applied throughout Australia and the wider tech sector network. KIK Academy will issue a qualification within 30 days of the final assessment being completed.

Locations

Training will be completed in 42 Adelaide’s online learning management system.

Expected duration

The program is designed to be delivered over 17 months. KIK Academy is able to support participants that need additional time. Alternatively, participants who have pre-existing skills and knowledge may be able to complete the course in a shorter duration.

Resource requirements

Online delivery



Online delivery will be experienced through the 42 learning environment via the internet and you will be required to have access to a computer or laptop.

Assessment requirements

The assessment is conducted using a combination of simulated workplace tasks, projects, written assessment tasks, and assessor interview. The following provides a brief explanation of the assessment methods that are to be applied:

Our assessment is conducted using a combination of Written Assessment, Workplace Simulation Tasks, Projects, Evidence Portfolio and Assessor interviews.

The following provides a brief explanation of the primary assessment methods:

- **Written Assessment:** The student is required to provide a written response to a range of questions relating to required knowledge of the units of competency. These would generally be short answer response activities and may include other questioning methods including multiple-choice. A student may also be required to provide a written response to a situation presented in a case study scenario. This will usually require the student to consider carefully the situation presented, undertake some research to inform their response and then to propose their recommended actions.
- **Workplace Simulation:** All Workplace Practical/Simulation Tasks are tasks which will align to the duties performed in this capacity in a workplace. The student is required to undertake a range of activities in the context of a workplace provided by the assessor. This may require review and creation of various workplace documents (reports, policies, etc).
- **Projects:** The student is required to undertake research within a simulated workplace and the available reference material and provide a written response to specific questions and tasks. These assessment activities are usually short to medium answer response activities but can include reports, or development of documentation. The responses provided by the student will largely be specific to a workplace. A project may include the creation of various workplace documents and may also have a practical presentation component.



- **Technical Project Evidence Checklist:** The assessor will review tasks completed by the student in the online learning environment using a technical evidence checklist. This may include peer evaluation meetings which the assessors will observe.
- **Verbal Interview:** The assessor will conduct an assessment interview with the student after all other assessment activities have been completed, and the assessor has completed the Technical Project Evidence Checklist. The assessor will ask a series of questions related to the evidence to assess a student's knowledge and understanding.

Entry requirements

There are no specified entry requirements for this qualification specified within the Industry Training Package.

Noting this, KIK Academy requires persons who undertake this course to:

- Be aged 16 years or over.
- Have completed 42 Adelaide 28 day Bootcamp
- If you haven't completed the 42 Adelaide 28 day Bootcamp, you must have either a Certificate IV ICT qualification or similar OR six months work experience in an ICT environment.
- Have suitable language, literacy and numeracy skills to read and comprehend learning materials and perform tasks related to programming roles in industry.

Please note. KIK Academy will engage with persons expressing interest in enrolment to discuss their language, literacy and numeracy skills. KIK Academy can provide additional learning support to students who require basic assistance. For students who have more fundamental support needs, KIK Academy can refer these students to a specialist language, literacy and numeracy development provider who can assist students to improve their language, literacy and numeracy skills to enable them to suitably commence the course.

Recognition of Prior Learning



Applicants can apply for recognition of their existing skills and knowledge that are relevant to the units of competency within the program. These skills and knowledge may have been obtained through workplace training or experience and may reduce the number of units required to be completed during the program. Students are encouraged to notify KIK Innovation of their interest or intention to apply for RPL prior to their enrolment. We will ask you about your prior experience when you enroll. This information is then used to determine the best pathway for you to achieve competency.

Student Information

Detailed student information is available within our KIK Student Handbook which is supplied with the enrolment package and also available at the Accreditation section of 42 Adelaide's web page. This booklet contains important information about a student's rights and obligations such as their right to privacy, a safe training environment and the right to complain or appeal an assessment decision. It is important that persons applying for enrolment have had an opportunity to review this information first.

Student Induction

KIK Academy will schedule student induction prior to the student's commencement. The following information is covered throughout the student's induction:

First and foremost to understand and appreciate that student fees are funded by industry sponsors of KIK Innovation Ltd. In return our expectation is that students will be dedicated to complete the qualification. By doing so they will be 'paying it forward' for other students to be given this opportunity and:

- the purpose of the course
- the qualification they are undertaking
- the units of competency to be covered, including the relationship between 42 curriculum and accredited training units
- assessment requirements
- modes of delivery
- equipment and resources they will need access to including information technology access arrangements



- resources they can access in 42 Adelaide learning management system
- study load requirements relating to things like self-paced learning
- behaviour expectation, discrimination or harassment policy, disciplinary arrangements
- administrative requirements including providing a student digital image, monitoring progress
- support arrangements including where to go if they need assistance and support services available
- points of contact
- how to provide feedback or to raise a complaint or appeal
- any rules such as mobile phones, smoking (if applicable)
- security and personal safety including lockdown procedures (if applicable)
- emergency evacuation arrangements (if applicable)
- first aid arrangements (if applicable)
- **For further information please contact: KIK Academy | academy@kik.org.au**



VERSION CONTROL THIS DOCUMENT

Title:	Course Brochure ICT50220 Diploma of Information Technology (Advanced Programming)
Author:	Julie Browne
Version Number:	1
G Drive File location :	KIK Academy Policies & Procedures / KIK Academy Enrolment
PDF version on website	

SUMMARY OF CHANGES

Date	Change
19/8/2024	updated with RTO accreditation number

VERSION CONTROL MASTER POLICIES & PROCEDURES DOCUMENT

Policy Section	n/a (not a policy document)
Author:	
Version Number:	
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