BE AMBITIOUS





Diploma of Information Technology (Advanced Programming) National Code: ICT50220-04V02

COURSE DESCRIPTION:

Learn various aspects of software development including analysing, designing, testing, implementing, and managing emerging technologies.

Develop strong technical and problem-solving skills that go beyond programming to allow you to understand and meet client requirements with an ICT solution that fits with the organisation's ICT and business goals.

This course provides:

Learning Resources: Workbooks will be provided by teachers of all subjects.

Also available: Learner Support, Tutoring Support, Counselling, Library, & much more.

Course outcomes include:

Successful graduates of this course will be suitable for careers as junior programmers/developers or junior analysts. Graduates of this course are also eligible for entry to undergraduate university degrees in information technology courses.

Entry Requirements:

To successfully complete this course, we recommend that you have:

- Completed the Certificate IV in Programming course or equivalent knowledge and skills.
- Some Programming experience in C#.NET.
- Some Programming experience in JavaScript & React Native.
- Database design/SQL experience.
- Object-Oriented analysis & design skill using UML.
- Language, Literacy and Numeracy (LLN) skills at Level 4 (based on Australian Core Skills Framework).

On-Campus Delivery

LOCATION & MODE OF DELIVERY

Location: Hornsby Campus, TAFE NSW 205 Peats Ferry Road, Hornsby NSW 2077

Full-Time Day: 6 months, 20 hrs/week. Delivered in **Face-to-Face** class mode.

Part-Time Day: 12 months, 10 hrs/week. Delivered in **Face-to-Face** class mode.

Enrolment is required to confirm your place in the course.

INFORMATION SESSIONS

To find out more about this course, meet our teachers and receive information about enrolment and next steps, attend an information session.

Dates & Times:

Online: Wednesdays June 4, 11, 18, 25 & July 2, 2025 at 6:00pm

MS Team Link:

https://infotech.hornsby.tafensw.edu. au/info-session-join-link

Face-to-Face: Thursdays June 26, & July 3, 2025 at 10:00am Location: Building G, Room G1.09

COURSE STRUCTURE: This course requires 20 (6 core & 14 elective) units of competency. Subjects/			REGISTER YOUR INTEREST or for more information
Units delivered are:		F	Phone: 131 601
ICTCLD507 Build and de	cation) are development methodologies ploy resources on cloud platforms jects using software management tools	E	Website: infotech.hornsby.tafensw.edu.au Email: NSI.HO.IT@tafensw.edu.au
Mobile Application Development (REACT Native)		, c	Course Enquiry: <u>nirmal.chowdhury@tafensw.edu.au</u>
ICTPRG535 Build advanced user interfaces		E	Enrol Now: www.tafensw.edu.au
ICTPRG553 Create and ICTPRG554 Manage dat	nediate object-oriented language skills develop REST APIs a persistence using NoSQL data stores		Contact us For More Information
ICTPRG603Develop advanced mobile multi-touch applicationsData-Driven App Project (ASP.NET + C#.NET)ICTDBS506Design databasesICTPRG443Apply intermediate programming skills in another languageICTPRG547Apply advanced programming skills in another languageICTPRG532Apply advanced object-oriented language skills		F	Contact: Michael Kirkwood-Smith Phone: 02 7921 3612 or 131 601 Email: <u>michael.kirkwood-smith3</u> @tafensw.edu.au Website: <u>http://infotech.Hornsby.tafenw.edu.au</u>
ICTPRG555 Implement	object-relational mapping framework for data	1	Nationally Recognised Training
persistence ICTPRG556 Implement a Project Planning	and use a model view controller framework		This training is fully subsidised by the NSW Government (FREE Course).
	nics and privacy in ICT environments		Course Workload
BSBXTW401 Lead and fac ICTSAS527 Manage clie BSBCRT512 Originate ar	orkplace cyber security awareness and best practices cilitate a team int problems ad develop concepts eeds with the strategic direction of the organisation		 ✓ 20 hours per week face-to-face class attendance (Full Time). ✓ 10 hours per week face-to-face class attendance (Part Time).

Timetable: The timetable is published on our section websitehttp://infotech.hornsby.tafensw.edu.au/ViewTimetable.aspx

Learning subjects include:

Mobile Application

- Learn to manage data persistence using NoSQL data stores.
- Learn Mobile Application development using React Native.
- Using REST APIs to develop multi-touch apps.

Project Design (Cloud Application)

- Manage resources on a cloud platform.
- Apply industry standard software development methodologies in conjunction with the latest software development frameworks and architectures.

Data-Driven Application (ASP.NET & C#.NET)

- Design databases and implement object-relational mapping framework for data persistence for specific business requirements.
- Learn advanced programming & build advanced user interfaces for complex IT systems using advanced C#.NET language.
- Use ASP.NET to develop web applications for business solutions and integrate them as a component into a business application that is deployed to the cloud.
- Apply testing techniques and build object-oriented applications using sophisticated software architectural patterns.

Plan Plannning

- Learn & promote workplace cyber security awareness and best practices.
- Manage client problems through analysing and producing ICT needs for strategic direction of an organisation.
- Learn how to lead & facilitate a team of an ICT project.

(S) 131 601 (R) tafensw.edu.au



This document is correct at the time of printing: June 2025. *Terms and conditions may apply.

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Plus, you will be required to spend an

equivalent amount of time on course

work outside of class time.