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 using UML.
- Language, Literacy and Numeracy (LLN) skills at Level 4 (based on Australian Core Skills Framework).

LOCATION & MODE OF DELIVERY

Location: TAFE NSW Hornsby
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, approx. 10 hrs/week. Delivered in face-to-face class mode during day.

Note: You will be required to spend an equivalent amount of time on course work outside of class time.

Enrolment through Application is required to confirm your place.

- Nationally Recognised Training
- This training is subsidised by the NSW Government **[Not a Free Course].**

CONTACT US FOR MORE INFORMAITON

Contact: **Michael Kirkwood-Smith**

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Email: **michael.kirkwood-smith3@tafensw.edu.au**

Web: **http://infotech.hornsby.tafensw.edu.au**

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COURSE STRUCTURE:

This course requires 20 (7 core & 13 elective) units of competency. Units delivered are:

ICTICT532	Apply IP, ethics and privacy policies in ICT environments
BSBXCS402	Promote workplace cyber security awareness and best practices
BSBCRT512	Originate and develop concepts
ICTICT517	Match ICT needs with the strategic direction of the organisation
BSBXTW401	Lead and facilitate a team
ICTSAS527	Manage client problems
ICTSAD506	Design a database
ICTPRG554	Manage data persistence using noSQL data stores
ICTPRG555	Implement object relational mapping framework for data persistence
ICTPRG443	Apply intermediate programming skills in another language
ICTPRG553	Create and develop REST APIs
ICTPRG547	Apply advanced programming skills in another language
ICTPRG603	Develop advanced mobile multi-touch applications
ICTICT430	Apply software development methodologies
ICTCLD507	Build and deploy resources on cloud platforms
ICTPRG530	Manage a project using software management tools
ICTPRG549	Apply intermediate object-oriented language skills
ICTPRG532	Apply advanced object-oriented language skills
ICTPRG535	Build advanced user interfaces
ICTPRG556	Implement and use a model view controller framework

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

Learning subjects include:

Database
- Learn to manage data persistence using NoSQL data stores.
- Design databases and implement object-relational mapping framework for data persistence for specific business requirements.

Mobile Application
- 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.

Programming Project (Client-Server Applications)
- 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 & Lead Project
- 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.

FEES & OTHER INFORMATION

Fees: Fees are set by TAFE NSW and can be viewed at:
www.tafensw.edu.au/enrol/fees

This course is Government Subsidised. VET Student Loans are available for this course [Not a Free Course].

Career opportunities: Work as a Junior Software Developer, Systems Analyst.

Course pathways: Completion of this certificate will provide you with the skills to apply for a University degree in Information Technology area.

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ENROL NOW OR REGISTER YOUR INTEREST

www.tafensw.edu.au

CONTACT US FOR MORE INFORMATION

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