

BE AMBITIOUS

CERTIFICATE IV IN PROGRAMMING



NATIONAL CODE: **ICT40515**
INFORMATION TECHNOLOGY SECTION
HORNSBY COLLEGE TAFE

COURSE DESCRIPTION:

This course will provide you with the foundation level skills and knowledge required to program software applications using industry-standard programming languages, database environments, integrated development environments and computer aided software engineering tools.

You will learn how to program using Java and C#.NET, design and create databases using Microsoft SQL Server. Gain skills in OO Analysis and Design.

COURSE OUTCOMES:

Completion of this certificate will provide you with the skills to apply for the Diploma of Software Development.

ENTRY REQUIREMENTS:

This course is suited to people who:

- Use computers regularly
- Know how to install and configure software
- Have completed prior IT courses or have worked in an industry where computers are used frequently
- Have above average typing speed
- Can easily manage their files and folders on a computer
- Have some understanding of programming

LOCATION AND DELIVERY

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

Full-time day: 6 months, 18 hrs/week

Part-time/flexible evening: 12 months 9 hrs/week. Delivered as a combination of online and face-to-face classes.

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

Registration and payment are required to confirm your place.

CONTACT US TODAY!**ENROL NOW OR
REGISTER YOUR INTEREST**

or for more information-

Contact **Peter Panagopoulos**

Phone: 9472 1392 or 131 601

Web: <http://infotech.hornsby.tafensw.edu.au>

Email: peter.panagopoulos@tafensw.edu.au

BE AMBITIOUS

COURSE STRUCTURE:

This course requires 18 units of competency. Units delivered are:

ICTPRG405	Automate processes
ICTPRG410	Build a user interface
ICTPRG414	Apply introductory programming skills in another language
ICTPRG407	Write script for software applications
ICTPRG427	Use XML effectively
ICTPRG404	Test applications
ICTPRG403	Develop data-driven applications
ICTPRG402	Apply query language
ICTDBS502	Design a database
ICTPRG412	Configure and maintain databases
ICTDBS403	Create basic databases
ICTPRG406	Apply introductory object-oriented language skills
ICTPRG413	Use a library or pre-existing components
ICTPRG428	Use regular expressions in programming languages
ICTICT418	Contribute to copyright, ethics and privacy in an ICT environment
ICTPRG419	Analyse software requirements
ICTPRG415	Apply skills in object-oriented design
ICTPMG401	Support small scale IT projects

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

LEARNING SUBJECTS INCLUDE:

C#.NET programming

- Learn intermediate-level programming skills in C#.NET, and build user interfaces for software applications.
- Utilise the .NET class libraries to automate business processes.
- Develop software applications that are integrated with a database such as Microsoft SQL Server.
- Test software applications.

Java

- Learn introductory-through to intermediate-level programming skills in the Java language.
- Utilise the Java class libraries to develop software apps.

Database

- Define and manipulate data and data structures using SQL.
- Design, build and configure databases for specific business requirements.

Systems analysis and project management

- Analyse software requirements
- Design Object-Oriented solutions using the Unified Modelling Language (UML)
- Project manage small scale ICT projects.

FEES & OTHER INFORMATION

Fees: Fees are set by TAFE NSW and can be viewed at:

<https://www.tafensw.edu.au/get-started-at-tafe-nsw/fees-information>

This course is Government Subsidized

Career opportunities: Work as a Junior Programmer, Junior Analyst, Support.

Course pathways: Completion of this certificate will provide you with the skills to apply for Diploma in Software Development course.

CONTACT US TODAY!

ENROL NOW OR REGISTER YOUR INTEREST

or for more information

Contact **Peter Panagopoulos**

Phone: 9472 1392 or 131 601

Web: <http://infotech.hornsby.tafensw.edu.au>

Email: peter.panagopoulos@tafensw.edu.au