



## Information & Communications Technology

### Why Study Information & Communication Technology (ICT)?

Information & Communication Technology (ICT) professionals (encompassing both IT and Digital Media) are among the highest paid group on average, in Western Australia. Every industry in the world now relies on IT so a career in this field is bursting with interesting, diverse and stimulating opportunities.

Studying IT is a relevant and almost essential practice in today's world. Those new to computing or needing to up-skill to the latest hardware and software applications will find IT studies particularly useful. IT students can specialise in areas such as networking, programming (business and games), web development, and multimedia (art and animation).

Graduates are in high demand and can take their pick of the most dynamic opportunities on offer both here and overseas. World travellers take note that IT skills are both a transferrable and marketable commodity.

Another burgeoning area is Digital Media. Digital Media is a high growth, dynamic and exciting industry. This growth is being fuelled by the proliferation of more and more devices that are multimedia ready. In today's world, mobile phones, personal digital assistants (PDAs), and game consoles (Xbox, Sony Playstation, Nintendo Wii) are used extensively for internet access and entertainment. As a result the role of the traditional multimedia developer is changing fast.

Demand is still strong for the development of content using graphics, animation, sound and video on traditional platforms such as the PC, but the industry is urgently seeking Multimedia graduates skilled in developing and distributing content using mobile phones, PDAs and game consoles.

### Why Study Information Technology at West Coast TAFE?

- West Coast TAFE is an official Microsoft Academy and Novell Silver Trainer
- Vendor qualifications can be obtained in our dedicated Prometric Testing Centre
- Industry partnerships ensure students have opportunities for practical work experience
- State-of-the-art A+ (Hardware) Lab
- Nine dedicated computer labs and more than 190 PCs available to students
- Lecturing staff are qualified industry professionals in Microsoft Certified Systems Engineer (MCSE), Microsoft Certified Solution Developer (MCSD) and Microsoft Certified Trainer (MCT)
- Flexible study options available – full-time, part-time, flexi, recognition of prior learning (RPL – if you are doing the job come and talk to us about getting the qualification to match your skills and where you could go from there).

### Why Study Digital Media at West Coast TAFE?

- Graduates are all-rounders – able to create content for both traditional and newer platforms
- Courses are hands-on giving students opportunities to work on real-life projects with industry clients – and opening up career prospects with these contacts
- Students will learn how to incorporate exciting multimedia content for websites as well as mobile phones, PDAs, iPods
- Lecturing staff specialise in different areas of multimedia such as animation (2D and 3D), graphic design, web design, video and programming
- Flexible study options full-time, part-time, flexi, and recognition of prior learning (RPL – those already doing the job, talk to us about getting the qualification to match your skills and where you could go from there)



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Courses	Career Opportunities
Certificate II in Information Technology	This certificate gives foundation computer skills and graduates can find employment in jobs involving information and communications technology (ICT) functions such as: Manufacturing at shop floor level for monitoring metrics of team performance and processes; Warehousing where automation of stock and inventory control is used; Basic shop front computer usage; Office Assistant; Junior Records Clerk; Other supplemental roles.
Certificate III in Information Technology (Triple Certificate – Networking, Support, Applications)	This certificate gives an overview of the varied IT areas giving students the opportunity to try networking, programming, web and support. Graduates can work in entry level positions as Network Support or an Advanced Office Specialist. Other jobs include: Call Centre Support Representative; Client Support Officer; Computer Operator; Customer Service Representative; Help Desk Officer; Help Desk Technician; ICT Operations Support; ICT User Support; Maintenance Technician; PC Support Specialist; Sales Support Technician; Technical Support.
Certificate IV in Information Technology – Website Design	This certificate qualifies graduates to development industry standard websites and gain employment as a Junior Website Developer.
Certificate IV in Information Technology – Website Administration	Graduates of this certificate will have the skills to maintain and test websites and web servers and gain employment as a Junior Website Administrator.
Certificate IV in Information Technology – Networking	This qualification covers a broad range of internetworking, network design, security and e-business. Graduates can be employed as: Network Configuration; Enterprise Application Integration Consultant; E-Security Analyst/Manager; Integration Analyst; Integration Centre Specialist; Intranet Engineer; Middleware Integration Specialist; Network Engineer; Solutions Architect; Systems Engineer. Graduates can continue their studies with the Diploma in Information Technology (Network Engineering) or entry level Bachelor Degree at a university.
Certificate IV in Information Technology – Programming (Business Stream & Games Stream)	This certificate is split into two streams either business or games programming to allow students to specialise where their interest lies. It can provide direct entry into the Diploma Programming, Diploma (MM - Games Development), university studies or a junior position in software development. Possible job roles include: Junior Software Developer/Programmer; Games Developer Team Member; Software Development Junior Engineer; Programming/Software Junior Engineer; Software Design Junior Engineer; Implementation Team Member; Games Programmer.
Diploma of Information Technology – Networking	Completion of this course will allow a student to sit for their MCSE. This course can provide a direct pathway into any university IT course or employment in the IT industry. Graduates can find employment as: Network Configuration; Enterprise Application Integration Consultant; E-Security Analyst/Manager; Integration Analyst; Integration Centre Specialist; Intranet Engineer; Middleware Integration Specialist; Network Engineer; Solutions Architect; Systems Engineer.
Diploma of Information Technology – Software Development	Real life projects and industry work experience form part of the diploma course. Graduates have a direct pathway into Diploma (MM - Games Development), university or a position in software development. Graduates can find employment as: Games Developer; Games Programmer; Middleware Programmer; Programming/Software Engineer; Software



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	Applications Specialist; Software Architect; Software Design Engineer; Software Developer/Programmer; Software Development Engineer; Xbox Programmer.
Diploma of Information Technology – Website Development	This diploma qualifies the graduate to gain employment as a Website Developer doing jobs from design, development, site performance, database integration through to implementation and acceptance testing. Graduates can find employment as: Analyst/Systems Analyst; Analyst Programmer; E-Commerce Programmer; E-Commerce Architect; eServices Intranet Engineer; Java Developer; Perl Programmer; Web Programmer; Internet Developer; Web Development Manager; Web Architect; Web Developer.
Diploma in Information Technology – Multimedia “Game Art & Animation”	This diploma explores digital media from an IT perspective. Graduates will be competent in designing, developing, utilising and securing multimedia. Upon completion you could apply to continue studies with advanced standing at university or find work as: Audio/Video Engineer; Contract Manager – Multimedia; Digital Media Specialist; Game Development Producer/Developer; Interaction Media Developer; Multimedia Authoring Specialist; Multimedia Designer/Developer; PC Games Programmer; Project Manager – Multimedia; PS2 Lead Programmer; Software Engineer Games; Software Support Engineer; Streaming Media Specialist; Web Designer; Multimedia Programmer; Multimedia Developer/ Engineer/Producer; Multimedia Specialist Producer.
Certificate II in Multimedia	This certificate gives foundation and general skills fundamental to anyone considering a career in the industry. Successful graduates can continue their studies into the Certificate III in Multimedia. Opportunities in industry may also exist as Desktop Publishing Operators and junior Graphic Artists.
Certificate III in Multimedia	This qualification gives the student an overview of the different areas of Multimedia. Students can try graphics, basic programming, web and animation. This certificate would allow a graduate to gain an entry level position as: Graphic Artist; Graphic Designer; Web Designer; 2D Animator. Entry level positions may entail a high degree of supervision.
Certificate IV in Multimedia	This qualification gives a student the opportunity to specialise in one or more areas of Multimedia and a chance to work in industry with minimal supervision. Most Certificate IV graduates work as: Graphic Designers; Web Designers; 2D Animators; 3D Animators.
Diploma of Multimedia	Students graduating with this qualification should be able to work in industry with little or no supervision. Job roles include: Graphic Artist; Graphic Designer; Web Designer; 2D Animator; 3D Animator Sound/Video Editor; Instructional Designer.

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