ICA40805 Certificate IV in Information Technology (Multimedia)

Release: 1
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Modification History
Not Applicable
Description

This qualification provides the skills and knowledge for an individual to be competent in designing, developing and utilising basic multimedia briefs either as an independent ICT specialist or as part of a team. The qualification has a small suite of core units with the opportunity for inclusion of 70 per cent of the qualification as electives selected from 7 'natural clusters' of units and beyond, thus providing exceptional flexibility for individuals and enterprises.

The Electives Clusters in the qualification are designed to provide a degree of guidance to individuals who may wish to develop deeper skills in particular fields within the multimedia industry, however the choice of electives is not confined to a single cluster. The 7 Electives Clusters are:

- Design
- Animation
- Games Development
- Website
- Multimedia Development
- Digital and Video
- IT

Complementary, 'non-ICT' qualifications can be found in several other Training Packages including:

- CUF07 Screen and Media
- ICP05 Printing and Graphic Arts
- CUV03 Visual Arts, Craft and Design
- BSB07 Business Services

Job Roles

Depending on the cluster selected, a person could work in a number of areas in the broad ICT and multimedia industries. Possible job titles include:

- 2D/3D Artist
- 3D Animator
- 3D Artist/Modeller
- Animator
- Audio/Video Engineer
- Designer
- Digital Media Specialist
- Game Development Producer
- Games Developer
- Graphic/Media Designer
- Interaction Media Developer
- Media/Instructional Designer
- Multimedia Author
- Multimedia Authoring Specialist
- Multimedia Designer
- Multimedia Developer
- Multimedia Developer/Engineer
- Multimedia Development Technician
- Multimedia Producer
- Multimedia Programmer
- Multimedia Specialist Producer
- PC Games Programmer
- PS2 Lead Programmer
- Software Engineer Games
- Software Support Engineer
- Streaming Media Specialist
- UnrealEd Level Designer
- Virtual Reality Specialist
- Web Designer
- Xbox Programmer

Pathways Information
Not Applicable

Licensing/Regulatory Information
Not Applicable
Entry Requirements

The following units contain the basic fundamentals of ICT knowledge and skills for all qualifications at Certificate III in IT and above. These units or demonstrated equivalence are required for entry into this qualification:

- BSBCMN106A  Follow workplace safety procedures
- ICAD2012B  Design organisational documents using computing packages
- ICAU1128B  Operate a personal computer
- ICAU2005B  Operate computer hardware
- ICAU2006B  Operate computing packages
- ICAU2013B  Integrate commercial computing packages
- ICAU2231B  Use computer operating system
- ICAW2001B  Work effectively in an IT environment
- ICAW2002B  Communicate in the workplace

Employability Skills Summary

The following table contains a summary of the Employability Skills required for a Multimedia Developer. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

<table>
<thead>
<tr>
<th>Employability Skill</th>
<th>Industry requirements for this qualification include:</th>
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<tbody>
<tr>
<td>Communication</td>
<td>• using plain English literacy communication skills in relation to analysis, evaluation and presentation of information</td>
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<tr>
<td>Teamwork</td>
<td>• exchanging messages with other project members and actively participating in IT community activities</td>
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<td>• scheduling feedback meetings to discuss report and possible next actions with stakeholders</td>
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<td>Problem Solving</td>
<td>• identifying possible approaches to multimedia projects and the benefits of each approach</td>
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<td>Initiative and Enterprise</td>
<td>• transferring and applying theoretical concepts and/or technical or creative skills to a range of situations</td>
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<td>Planning and Organising</td>
<td>• planning and developing a multimedia design which meets the project specifications</td>
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<td>Self-management</td>
<td>• taking responsibility for own outputs in relation to specified quality standards</td>
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<td>• working within the Australian Computer Society code of ethics regarding security, legal, moral and ethical issues</td>
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<tr>
<td>Learning</td>
<td>• maintaining knowledge of tools and software applications and the goods and services provided</td>
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<td>• obtaining client evaluation and feedback</td>
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Employability Skill | Industry requirements for this qualification include:
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Technology | • selecting and using software and hardware diagnostic tools, including for multimedia contexts and automated testing environments

### Packaging Rules

#### Qualification Structure
To attain the ICA40805 Certificate IV in Information Technology (Multimedia) 19 units must be achieved:
- 6 core units; plus
- 13 elective units

#### Achieve 6 Core Units
**Core**
- BSBCMN304A Contribute to personal skill development and learning
- CUFGEN01A Develop and apply industry knowledge
- CUDIG401A Author interactive media
- CUSADM08A Address copyright requirements
- ICAW4214B Maintain ethical conduct
- PSPPM402B Manage simple projects

#### Achieve 9 Elective Units from any of the ICA40805 Electives Clusters below

**Note 1:** The grouping of units into these clusters is for guidance only. It is *not* a requirement of this qualification that a complete cluster be completed.

**Note 2:** People intending to complete other Certificate IVs in IT or proceed to a Diploma of IT qualification are encouraged to complete the IT cluster of units.

#### Electives Clusters

**Design**
- CUDIG303A Produce and prepare photo images
- CUDIG502A Design web environments
- CUFMEM07A Apply principles of visual design and communication to the development of a multimedia product
- CUFMEM10A Design and create a multimedia interface
- ICPPP311B Develop a detailed design concept

**Animation**
- CUFANM302A Create 3D digital animation
- CUFANM301A Create 2D digital animation
- CUFIMA05A Create 3D digital models and images

**Games Development**
- ICAA4058B Apply skills in object-oriented design
- ICAB4075B Use a library or pre-existing components
- ICAB4219B Apply introductory object-oriented language skills
- ICAB4224B Apply mathematical techniques for software development
ICAB4225B Automate processes
ICAT4242B Perform unit test for a class
ICAB5223B Apply intermediate object-oriented language skills

Website
ICAB4135B Create a simple mark-up language document to specification
ICAB4137B Produce basic client side script for dynamic web pages
ICAB4169B Use development software and IT tools to build a basic website
ICAI4189B Ensure website content meets technical protocols and standards
ICAT4183B Confirm accessibility of website design for people with special needs
CUDIG201A Maintain interactive content

Multimedia Development
CUDIG501A Coordinate the testing of interactive media products
CUFMEM10A Design and create a multimedia interface
CUDIG505A Design information architecture
CUFWRT601A Write scripts
ICPKN315B Apply knowledge and requirements of the multimedia sector

Digital and Video
CUFCAM01A Set up and operate a basic video camera
CUFCAM03A Compose camera shots and operate a camera
CUFMEM13A Incorporate, design and edit digital video
ICPM321B Capture a digital image
ICPM346B Incorporate video into multimedia presentations

IT
ICAA4041C Determine and confirm client business expectations and needs
ICAB4225B Automate processes
ICAD4043B Develop and present a feasibility report
ICAD4217B Create technical documentation
ICAT4221B Locate equipment, system and software faults

Achieve 4 Elective Units from the Following Sources (Listed in Recommended Order)
- any of the Electives Clusters above; and/or
- elsewhere in the ICA05 Information and Communications Technology Training Package (at Certificate III [maximum 2 units], Certificate IV or Diploma; and/or
- preferred Training Packages (CUF07 Screen and Media; ICP05 Printing and Graphic Arts; SIR07 Retail Services; CUV03 Visual Arts, Craft and Design) at Certificate IV or Diploma; and/or
- any other Training Package (up to a maximum 2 units) based on documented industry or enterprise needs (at Certificate IV or Diploma)

Prerequisite Requirements

Prerequisite Requirements
There are no specific prerequisites for ICA05 core units in this qualification, however prerequisite arrangements for non-ICA05 core and any elective units should be checked with the originating Training Package.