

ICA40911 Certificate IV in Digital and Interactive Games

Release 2



ICA40911 Certificate IV in Digital and Interactive Games

Modification History

Release	Comments
Release 2	This Qualification released with ICA11 Information and Communications Technology Training Package version 2.0 Updated elective unit to most current version.
Release 1	This Qualification first released with ICA11 Information and Communications Technology Training Package version 1.0

Description

This qualification provides the skills and knowledge for an individual to be competent in supporting the design, development and programming of basic digital games briefs as part of a larger development team. The qualification has a small suite of core units with an opportunity to select units from specialist groups of electives across the different artistic or programming fields of the industry.

Job roles

Possible job titles relevant to this qualification include:

- support 2-D/3-D artist
- assistant animator
- assistant designer
- support games developer
- assistant graphic/media designer
- interaction media developer
- support digital media developer
- assistant PC games programmer
- support web designer.

Approved Page 2 of 6

Pathways Information

Pathways into the qualification

Preferred pathways for candidates considering this qualification include:

• after achieving ICA30111 Certificate III in Information, Digital Media and Technology, or other relevant qualifications or units equivalent to the core of ICA30111

OR

- after achieving a Year 12 certificate and relevant ICT experience equivalent to the following units of competency:
 - ICAICT201A Use computer operating systems and hardware
 - ICAICT202A Work and communicate effectively in an IT environment
 - ICAICT203A Operate application software packages
 - ICAWEB201A Use social media tools for collaboration and engagement

OR

• with demonstrated vocational experience in a range of ICT and games development environments.

Pathways from the qualification

ICA50211 Diploma of Digital and Interactive Games, or a range of other Diploma qualifications.

Licensing/Regulatory Information

There is no link between this qualification and licensing, legislative or regulatory requirements. However users should confirm requirements with the relevant federal, state or territory authority. There may be some alignment with industry standard certification competencies.

Entry Requirements

There are no entry requirements for this qualification.

Approved Page 3 of 6

Employability Skills Summary

The following table contains a summary of the employability skills required by industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability skill	Industry/enterprise requirements for this qualification
Communication	 researching and gathering information on the games industry documenting work and producing technical reports for games design and development articulating, presenting and debating ideas for games development writing scripts, storyboards, content and stories for games
Teamwork	 working collaboratively with team members supporting team members and project leader to meet deadlines
Initiative and enterprise	generating solutions in response to individual and collaborative project tasks
Planning and organising	 producing concept design and documentation/storyboarding meeting resource implications and requirements
Problem-solving	developing creative and technical solutions or outcomes in response to presented design briefs and exercises
Self-management	 applying safe and sustainable work practices meeting copyright, ethical and privacy standards in the areas of security, legal, moral and ethical practice
Learning	maintaining knowledge of digital media tools and software applications
Technology	 keeping up-to-date and maintaining own competence using a range of 2-D and 3-D games development software and tools to design and produce an interactive game

Approved Page 4 of 6

Packaging Rules

Total number of units = 16 4 core units plus 12 elective units

The elective units consist of:

- 5 units from one of the following specialist elective groups:
- Group A Design
- Group B Programming
- Group C Art
- of the remaining units:
- up to 7 may be from the specialist elective groups below or from Group D general elective units below or elsewhere in ICA11
- up to 3 may be from **elsewhere in** ICA11 or from any other Training Package or accredited course at **Certificate IV or Diploma level**.

The elective units chosen must be relevant to the work outcome and meet local industry needs.

Core units

BSBOHS302B Participate effectively in OHS communication and consultative processes ICAGAM401A Produce an interactive game ICAICT418A Contribute to copyright, ethics and privacy in an IT environment ICAICT419A Work effectively in the digital media industry

Elective units

Specialist elective units

Group A Design

CUFPPM404A Create storyboards

ICAGAM402A Identify and apply principles of games design and game playing

ICAGAM403A Create design documents for interactive games

ICAGAM405A Write story and content for digital games

ICAGAM406A Create visual design components for interactive games

ICAGAM407A Write scripts for interactive games

Group B Programming

ICAGAM404A Apply artificial intelligence in game development

ICAICT406A Build a graphical user interface

ICAPRG301A Apply introductory programming techniques

ICAPRG405A Automate processes

ICAPRG406A Apply introductory object-oriented language skills

ICAPRG413A Use a library or pre-existing components

ICAPRG415A Apply skills in object-oriented design

ICAPRG417A Apply mathematical techniques for software development

ICAPRG527A Apply intermediate object-oriented language skills

Approved Page 5 of 6

Group C Art

CUFANM301A Create 2D digital animations CUFANM302A Create 3D digital animations CUFANM303A Create 3D digital models CUFANM402A Create digital visual effects CUVDRA201A Develop drawing skills

ICADMT402A Produce interactive animation

ICADMT403A Produce and edit digital images

ICAGAM301A Apply simple modelling techniques

ICAGAM302A Design and apply simple textures to digital art

ICAGAM303A Review and apply the principles of animation

ICAGAM408A Use 3-D animation interface and toolsets

ICAGAM409A Create 3-D characters for interactive games

ICAGAM410A Develop 3-D components for interactive games

ICAGAM412A Design interactive media

ICAGAM413A Design and create 3-D digital models

ICAGAM414A Create audio for digital games

ICAGAM416A Prepare and complete image rendering processes

ICAGAM417A Apply digital effects to interactive products

ICAGAM418A Use simple modelling for animation

General elective units

Group D

BSBCRT401A Articulate, present and debate ideas

ICAICT408A Create technical documentation

ICAICT417A Identify, evaluate and apply current industry-specific technologies to meet industry standards

ICAICT420A Develop client user interface

Approved Page 6 of 6