

ICTGAM429 Develop 3-D components for interactive games

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to design and to create, 3-D components within a game environment.

It applies to individuals who support the design, development and programming of basic digital games as part of a larger development team.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Game development

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
Identify and confirm 3-D component requirements within game context	 1.1 Obtain game design document and identify definition and purpose of 3-D components, with examples 1.2 Identify context of 3-D component design according to game design document 1.3 Create a list of required 3-D components 1.4 Establish methods of 3-D component loading and usage 1.5 Identify quality assurance standards, evaluation methods and organisational procedures applicable in developing 3-D components

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ELEMENT	PERFORMANCE CRITERIA
Establish content creation pipeline and integration methods within game architecture	 2.1 Finalise required 3-D component list 2.2 Discuss 3-D component formats, file extensions and ramifications of choice with required personnel 2.3 Discuss and select hardware and software required in creating 3-D components and assets 2.4 Discuss methods of naming 3-D components and assets and file archiving 2.5 Establish schedule and deadlines in 3-D component creation process
Create, integrate and test required 3-D components	3.1 Create required 3-D components and assets according to organisational procedures and client requirements
	3.2 Name 3-D components and assets according to methodology discussed
	3.3 Confirm 3-D components and assets are in required format and file extensions
	3.4 Test and confirm produced 3-D components meet established quality and client requirements
	3.5 Seek feedback from required personnel and make changes to 3-D components and assets as required
	3.6 Submit finalised assets with required archiving format outlined in the assignment brief and obtain sign-off

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Numeracy	 Uses whole numbers, decimals and percentages applicable to file size, software and hardware specifications, measurement, font size, scale, ratio, coordinates, colour, shading and other attributes and variables in developing 3-D components and timelines Defines timeframes in accordance with schedule requirements
Oral communication	Obtains information and expresses ideas and solutions by employing listening and open questioning techniques using plain English and games development terminology
Reading	Identifies and interprets briefs and applicable technical documentation

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Skill	Description
	 containing complex task-specific terminology Interprets and comprehends computer generated text, diagrams, icons, symbols, numbers and letters required in using 3-D application software
Self-management	 Makes routine decisions and implements standard procedures in routine tasks Uses formal decision-making processes in more complex and non-routine situations Evaluates work and implements improvements using a systematic process Identifies importance of file format and takes responsibility in data integrity and management
Technology	Completes routine tasks using specific digital systems and tools

Unit Mapping Information

Supersedes and is equivalent to ICTGAM410 Develop 3-D components for interactive games.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2

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