CUAANM303 Create 3D digital models

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 2.0.

Application

This unit describes the skills and knowledge required to create 3D digital models that meet technical and design specifications.

It applies to individuals who clarify production requirements and produce 3D models under supervision, but may have responsibility for planning their own work. They produce these 3D models primarily for online and mobile device application.

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

Unit Sector

Visual Communication – Animation and Digital Effects

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Clarify work requirements	1.1 Clarify requirements and purpose for 3D digital models with reference to production documents
	1.2 Clarify workflow sequences in consultation with relevant personnel to ensure production schedule deadlines are met
	1.3 Clarify with relevant personnel the modelling technique that suits production requirements
	1.4 Discuss and select digital modelling software with relevant personnel that suits production delivery platform and modelling techniques
	1.5 Gather and analyse reference materials to help visualise 3D models

ELEMENT	PERFORMANCE CRITERIA
2. Develop 3D digital models	2.1 Use software features and apply modelling principles to block out models based on reference materials
	2.2 Adopt safe ergonomic practices when using screens and keyboards for extended periods of time
	2.3 Use software features and geometry to shape models and apply various effects as required
	2.4 Check that models' topology allows appropriate deformation as required
	2.5 Refine and check integrity of models progressively until they meet design requirements
	2.6 Confirm with relevant personnel that models have not infringed copyright
	2.7 Test models to identify faults, and modify as required
	2.8 Demonstrate models to relevant personnel for feedback, and make adjustments as required
3 Finalise 3D digital models	3.1 Review 3D models to ensure creative solutions meet design specifications
	3.2 Discuss and confirm with relevant personnel additional requirements or modifications to 3D models and undertake necessary amendments
	3.3 Render and output models in appropriate format and submit to relevant personnel by agreed deadlines
	3.4 Make back-up copies of files, and save and store 3D models using standard naming conventions

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.2, 1.5	• Analyses textual information from production documents and reference materials to confirm design requirements
Writing	1.1, 1.2	• Uses specific language appropriate to audience to clarify requirements and prepare work-related

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		documentation
Numeracy	2.1, 2.3	• Uses knowledge of shapes, symmetry and solids to perform required adjustments to models
Oral Communication	1.1-1.4, 2.6, 2.8, 3.2	• Explains ideas and requirements clearly and listens carefully to verbal instructions • Uses questioning and listening skills to clarify and confirm understanding
Navigate the world of work	2.2, 2.6	• Applies legislatives requirements relevant to own role
Interact with others	1.1-1.4, 2.6, 2.8, 3.2, 3.3	• Responds to and draws on others' perspectives when negotiating design of 3D digital models • Collaborates to achieve joint outcomes in the design process, playing an active role in facilitating effective group interaction
Get the work done	1.2-1.5, 2.1-2.8, 3.1-3.4	• Plans, organises and implements tasks required to meet requirements within deadlines • Makes aesthetic and technical decisions in collaboration with others • Evaluates requirements and technical criteria to ensure design specifications are achieved • Uses digital software to create models and to manage files

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUAANM303 Create 3D digital models	CUFANM303A Create 3D digital models	Updated to meet Standards for Training Packages. Minor edits to elements and performance criteria. Additional element.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5

PwC's Skills for Australia