



Australian Government

Assessment Requirements for ICTGAM514 Design and create models for a 3-D and digital effects environment

Release: 1

Assessment Requirements for ICTGAM514 Design and create models for a 3-D and digital effects environment

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Performance Evidence

Evidence of the ability to:

- research and build a portfolio of reference material
- prepare a topology plan for a 3-D model design using:
 - appropriate industry terminology
 - appropriate geometry surfaces
 - concept development software
 - feedback from others to refine the plan
- use software to construct an advanced 3-D model according to plan, and use feedback from others to refine the model.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline methods of sourcing reference material
- summarise the key aspects of a modelling plan
- discuss geometry surfaces, including:
 - NURBS
 - Sub-D
 - Polygon
 - T-splines
 - explain the digital model development process
 - explain the technology requirements and human resources required to create 3-D models, and their respective skills
 - • explain box, edge-loop and patch modelling

- summarise the capabilities and constraints of 3-D modelling packages
- outline why it is important to schedule each production component
- explain features of topology plans
- discuss the uses of storyboards and scripts.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the game development field of work, and include access to:

- computer hardware and software
- games engines
- file storage.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>