



Australian Government

Assessment Requirements for ICTGAM536

Design interactive 3-D applications for scientific and mathematical modelling

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.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- design an interactive 3-D application according to scientific and mathematical modelling requirements on at least one occasion.

In the course of the above, the candidate must:

- comply with task and user requirements and organisational procedures
- confirm interactive 3-D environment reflects scientific and mathematical modelling requirements
- confirm functionality of 3-D application for scientific and mathematical modelling on at least two different browsers and at least two different devices.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- documentation techniques applicable to documenting work performed and testing procedures
- object-oriented 3-D programming design methodologies and principles
- features and functions of different prototyping tools applicable to designing interactive 3-D applications
- data sources and business expectations and needs applicable to designing interactive 3-D applications
- different interactions between users and 3-D environments
- techniques for designing and using a graphical user interface (GUI) to interact with users
- organisational and testing procedures applicable to 3-D application design process
- procedures for using 3-D technologies to simulate scientific or mathematical models.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- applicable 3-D equipment, software and hardware
- prototyping tools applicable to designing interactive 3-D applications
- technical manuals
- examples of scientific or mathematical models
- organisational procedures applicable to designing 3-D applications.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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