



Australian Government

Assessment Requirements for ICTXRE403 Design mixed reality solutions

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Newly created unit of competency to address in-demand skills needs

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 at least two mixed reality (MR) solutions with plans for a virtual workspace, using at least one of the following concepts:
 - web design-based concepts
 - application design-based concepts
 - mobile design-based concepts.

In the course of the above, the candidate must:

- securely and safely store documentation and virtual assets in required locations
- apply required organisational policies and procedures.

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:

- functions and features of neural networks and machine learning
- databases containing MR case studies
- key types and techniques of integrating VR- and AR-enabled solutions, including:
 - computer vision
 - graphical processing power
 - display technology
 - input systems
- MR-enabled solutions aligned with context considerations, including:
 - virtuality continuum and categorisation

- environmental input
- spatial sound
- location and positioning in real and virtual spaces
- functions and features of artificial intelligence-based diagnostic tools
- key methods to configure and apply MR device components using different concepts and technical guidelines, including:
 - holographic devices
 - immersive devices
- organisational formats for documentation and reports
- organisational policies and procedures and legislative requirements relating to work tasks.

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:

- MR case studies where MR solution plans need to be developed
- required technological infrastructure, including tools, hardware, software and configuration components
- opportunities for interaction with others
- work brief and organisational policies and procedures required to demonstrate the performance evidence.

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>