



Australian Government

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

Application

This unit describes the skills and knowledge required to develop concepts to build immersive environments in virtual workspaces. It includes integrating mixed reality (MR) solutions to enable virtual and physical objects to interact.

The unit applies to individuals working in information and communications technology (ICT) roles who contribute to design activities required for building virtual workplaces in workplace contexts.

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

Unit Sector

Extended reality

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. Prepare to design MR-enabled solutions	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Analyse required MR solutions and technologies in consultation with required personnel 1.3 Analyse MR hardware, software and tools according to analysis 1.4 Document MR analysis findings according to organisational policies and procedures
2. Analyse MR interaction options	2.1 Analyse existing digital architecture according to work brief 2.2 Observe organisational processes requiring MR solutions

ELEMENT	PERFORMANCE CRITERIA
	according to work brief 2.3 Research and document MR and augmented reality (AR) interaction options in required format 2.4 Select and plan MR and AR interaction solution option according to work brief 2.5 Consult with required personnel and seek feedback on MR solution plan 2.6 Seek approval for MR solution plan from required personnel
3. Make recommendations	3.1 Source and review related MR case studies from required database 3.2 Analyse technological improvements set out in MR case study 3.3 Analyse MR concept considerations and required MR solution plan according to work brief 3.4 Brainstorm and document possible MR integration solution plan according to analysis 3.5 Synthesise and present MR recommendations and MR solution plan to required personnel 3.6 Seek and implement feedback from required personnel 3.7 Store MR design documentation and virtual assets in required locations

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
Reading	Reviews complex texts with at times complex technical terms
Writing	Develops a broad range of materials using clear language in order to convey specialised information and requirements
Planning and organising	Uses formal processes to identify key information and issues, evaluate strategies and plan to rectify implementation issues
Problem solving	Uses formal analytical techniques to implement solutions

Unit Mapping Information

No equivalent unit. Newly created unit.

Links

Companion Volume Implementation Guide is found on VETNet - -

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