



Australian Government

MSFID4020 Research and integrate embedded technologies in interior designs

Release: 1

MSFID4020 Research and integrate embedded technologies in interior designs

Modification History

Release 1. New unit.

Application

This unit describes the skills and knowledge required to determine technology requirements, research products, make recommendations and present requirements appropriately on design documentation.

This unit applies to interior designers, including kitchen and bathroom designers. They analyse and compare product information from a wide range of different sources to develop a design solution.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

N/A

Unit Sector

Interior Decoration and Design

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine project requirements	1.1 Evaluate project specifications, parameters and constraints, and confirm with client 1.2 Select work resources based on the needs of the project 1.3 Identify key project stakeholders and establish required communication protocols
2. Research options for embedded technologies	2.1 Identify credible sources of information on proposed technologies 2.2 Analyse intended use and review against functional features of different products 2.3 Analyse and evaluate product properties for their suitability and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	compliance with Australian Standards 2.4 Source information about costs and availability and compare against the project brief 2.5 Identify and integrate potential sustainability features or issues into the research process
3. Refine ideas and select preferred solution	3.1 Explore and refine different options for integrating technology into the space through a process of reflection and testing 3.2 Choose a preferred solution based on research findings and the key objectives of the project brief 3.3 Present recommendations in a format and level of detail that suits the client and scope of the project 3.4 Clearly articulate and present rationale for the chosen solution to the client 3.5 Seek client feedback on the proposed solution and make adjustments accordingly
4. Develop design specifications	4.1 Develop documentation detailing information about embedded technologies required for installation using appropriate drawing protocols 4.2 Provide an evidence-based estimate for embedded technologies purchase and installation 4.3 Present the completed design documentation and costing in a professional format.

Foundation Skills

The Foundation Skills describe those required skills (such as, language, literacy, numeracy and employment skills) that are essential to performance:

- technology skills to use digital research and create documents.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFID4020 Research and integrate embedded technologies in interior designs

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- researched and integrated embedded technologies in response to 3 different project briefs that individually or cumulatively require solutions for:
 - automation
 - appliance integration.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- legal and ethical considerations for the provision of design advice on embedded technologies, including:
 - individual worker responsibilities under Australian consumer law
 - compliance requirements for products recommended
 - installation requirements as per National Construction Code (NCC) and relevant licensing regimes
- type and scope of client / project brief information needed to inform research and recommendation:
 - budget
 - aesthetic and functional client preferences
 - site characteristics
 - timeline
- types and features of resources that support the provision of design advice, and how they are used, including:
 - research tools
 - product tools
 - communication tools
- sources of credible information on embedded technologies, including:
 - how to access
 - ways to interrogate and identify and distil information
 - how to distinguish reputable products
- availability and features of current and emerging embedded technologies used in different interior spaces, including those related to:

- appliances
- automated drawers and doors
- counter tops
- computer screens
- lifting systems
- lighting systems
- sound systems
- switch glass
- window furnishings
- factors for consideration in selecting embedded technologies:
 - accessibility
 - compatibilities from safety perspective
 - compliance with Australian Standards
 - privacy
 - security
 - service requirements and availability of servicing
- considerations and limitations for embedding technologies in different cabinetry and interior spaces
- installation requirements for different types of embedded technologies, including who is able to install different types of technologies
- how to specify embedded technologies on design documentation.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - design briefs
 - information technology for research and design presentation.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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