



Australian Government

ICTDSN401 Design digital user interfaces

Release: 1

ICTDSN401 Design digital user interfaces

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 design user interfaces (UIs) for a wide range of devices and interactive multimedia in digital environments. It includes identifying user requirements, developing UI prototypes and testing UI designs.

The unit applies to individuals who may work in UI and user experience (UX) design roles who apply information and communications technology (ICT) skills and knowledge to produce UI prototypes.

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

Unit Sector

Design thinking

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Establish user requirements	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Review technical parameters for interactive media products and delivery platforms according to work brief 1.3 Identify user characteristics and system architecture specifications 1.4 Create UI mood board according to work brief
2. Produce concept designs	2.1 Select and source required sketching software and tools 2.2 Develop preliminary concept sketches according to work

ELEMENT	PERFORMANCE CRITERIA
	brief 2.3 Source and confirm sketching component serviceability according to work brief 2.4 Obtain sketch components and sketch screen layouts according to organisational policies and procedures 2.5 Develop final concept sketches according to work brief 2.6 Seek feedback from required personnel 2.7 Document UI design specifications according to work brief
3. Develop UI workspaces	3.1 Assess staging relationships in specified digital environment 3.2 Analyse UI toolkits and workspaces 3.3 Confirm and document required UI toolkits according to work brief 3.4 Create UI workspace according to work brief 3.5 Confirm that UI workspace aligns with user requirements and UI concept designs
4. Finalise UI designs	4.1 Develop UI prototype according to work brief 4.2 Plan testing procedures with sample users 4.3 Test UI prototype according to work brief 4.4 Evaluate results of testing and adjust design specifications according to work brief 4.5 Seek and integrate feedback on adjusted UI prototype 4.6 Present final UI prototype to required personnel according to organisational policies and procedures

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	Interprets technical information and guidelines to determine work requirements
Writing	Uses specific technical, diagrammatic and visual textual language appropriate to environment to prepare prototype designs
Planning and organising	Uses a range of processes to identify key information and issues, evaluate alternative strategies, anticipate consequences and consider implementation issues and contingencies

Skill	Description
Oral communication	• Uses clear language, listening and questioning techniques to confirm and clarify design, technical and user information

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>

Assessment Requirements for ICTDSN401 Design digital user interfaces

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:

- produce at least two different user interface (UI) designs.

In the course of the above, the candidate must:

- comply with technical and creative parameters
- safely and securely store UIs 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 industry-recognised UI components and operations
- functions, features and specifications of common system architectures for UIs
- key characteristics of UIs, including:
 - concept sketches
 - screen layouts
 - design specifications
 - staging relationships
 - toolkits
 - workspaces
 - prototypes
 - delivery platforms
- principles of digital accessibility

- key technical parameters of interactive media products
- applications of concept design briefs in designing UIs
- key tools and technical parameters required in designing UI components, including:
 - interactive multimedia products
 - delivery platforms
- industry-recognised tools and techniques to develop UI mood boards, concept sketches and workspaces
- industry-specific considerations required when developing UI prototypes
- UI prototype testing tools and techniques
- 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:

- required technologies and resources to design UIs
- opportunities for interaction with others
- work brief, design specifications, 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>