



Australian Government

ICTWEB453 Optimise websites for mobile devices

Release: 1

ICTWEB453 Optimise websites for mobile devices

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 implement mobile-user functions to websites and maintain website user experience on mobile devices. It involves optimising the functionality and accessibility of websites for mobile devices.

The unit applies to individuals who may work in roles such as website developers and technical support staff, who support the management and useability of simple websites.

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

Unit Sector

Web

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. Prepare to optimise website for mobile devices	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Review user needs according to work brief 1.3 Research options for responsive website design features 1.4 Select suitable responsive design option according to work brief 1.5 Confirm that mobile optimisation meets required web content accessibility guidelines (WCAG) and standards
2. Integrate website	2.1 Analyse website structure and uniform resource locators

ELEMENT	PERFORMANCE CRITERIA
sitemap	(URLs) 2.2 Format URLs with corresponding code and extensible markup language (XML) tags 2.3 Validate URL codes according to work brief 2.4 Add sitemap file to required website root folder 2.5 Submit sitemap to search engines according to work brief 2.6 Test sitemap on search engine and rectify any issues
3. Implement responsive website design features	3.1 Test website functionality according to work brief using different screen orientations and resolutions 3.2 Review mobile view strategy according to work brief 3.3 Source and check view configuration components for serviceability 3.4 Develop mobile views according to mobile view strategy 3.5 Integrate navigation functions according to work brief 3.6 Test user control functions and rectify any issues
4. Periodically review mobile website functionality	4.1 Create periodic website testing plan and timelines 4.2 Test and debug mobile features according to work brief 4.3 Deploy website on mobile device and rectify any deployment issues 4.4 Seek and integrate feedback from required personnel on testing and debugging process 4.5 Document maintenance changes 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 a range of technical specifications and other information and determines solutions according to requirements
Writing	Develops a range of texts, codes and plans using required technical language
Planning and organising	Uses systematic processes for information gathering and evaluates research findings against agreed criteria
Problem solving	Contributes to continuous improvement of digital presence by applying basic principles of analytical thinking

Skill	Description
Self-management	Makes some critical and non-critical decisions to develop and test functionality and accessibility of websites according to client requirements

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 ICTWEB453 Optimise websites for mobile devices

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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:

- implement at least two mobile-user features to a website
- test the user experience of at least two different websites using a mobile device.

In the course of the above, the candidate must:

- update and adhere to website testing plans and timelines
- identify required website and design structures
- confirm functionality and accessibility of website information architecture
- 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:

- website requirements of industry-recognised mobile devices
- testing and operating procedures for user control functions, including:
 - text size
 - brightness
 - sound effects
- functions and features of mobile view strategies, responsive designs and required configuration components
- methods to test and debug website features, functionality and view options, including:
 - font
 - display view

- speed
- key types of code and extensible markup language (XML) tags for uniform resource locators (URLs), including:
 - location
 - last changed
 - changed frequency
 - priority of page
- methods to locate sitemap files and apply to search engines
- mobile website deployment operations
- periodic website testing plans and timelines
- web content accessibility guidelines (WCAG) and digital accessibility standards
- 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:

- mobile devices on which websites can be loaded and used
- required configuration and deployment components
- opportunities for interaction with others
- work brief, web standards and guidelines, 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.

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