



Australian Government

ICTWEB519 Develop complex web page layouts

Release: 1

ICTWEB519 Develop complex web page layouts

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to design and create a web page layout to suit a range of browsers and devices.

It applies to individuals who work as web designers and web developers and have a highly developed understanding of design principles and applies technical skills proficiently, according to unique specifications.

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 develop web page layout	1.1 Identify and confirm applicable legislative and organisational standards and procedures applicable to webpage layout development 1.2 Identify main sections of web page design 1.3 Identify main sections of web page layout

ELEMENT	PERFORMANCE CRITERIA
2. Build, test and validate web page layout	2.1 Create web page structure according to design specifications 2.2 Position and style web page elements according to design specifications 2.3 Create cascading style sheet and web page according to design specifications 2.4 Test design and functionality of web page in various browsers and devices 2.5 Amend browser and device incompatibilities according to organisational procedures 2.6 Debug and confirm security of web page using cyber security procedures and protocols
3. Finalise web page layout	3.1 Confirm accessibility of web sections, elements and pages 3.2 Seek feedback from required personnel and amend layout as required 3.3 Obtain sign-off and confirmation from required personnel

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
Numeracy	• Takes measurements and performs calculations for web page layout
Reading	• Critically analyses specifications and other documentation from a variety of sources and consolidates information when determining requirements
Writing	• Develops organised technical material for specific audiences using required language
Planning and organising	• Accepts responsibility for planning and sequencing complex tasks and workload • Negotiates key aspects with others, including required capabilities, efficiencies and effectiveness
Problem solving	• Applies systematic and analytical decision-making processes for complex situations

SKILL	DESCRIPTION
Self-management	• Takes responsibility for following policies, procedures and industry standards
Technology	• Uses and investigates new digital technologies and applications • Manages and manipulates data, and communicates with others in a secure and stable digital environment

Unit Mapping Information

Supersedes and is equivalent to ICTWEB505 Develop complex web page layouts.

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 ICTWEB519 Develop complex web page layouts

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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:

- develop at least two complex website layouts according to technical requirements.

In the course of the above, the candidate must:

- lay out and style page elements to suit a variety of devices
- test web page layouts in at least two different browsers and at least two different devices
- validate web page layouts against industry standards.

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:

- principles of web site design and web scripting design
- principles and techniques in web site design, including:
 - hypertext markup language (HTML)
 - extensible hypertext markup language (XHTML)
 - cascading style sheets (CSS)
 - hypertext transfer protocol (HTTP)
 - amending browser incompatibilities
 - web libraries
 - web frameworks
- industry procedures, policies and standards applicable to developing web page layouts
- web page testing and debugging procedures
- accessibility standards, including the World Wide Web Consortium (W3C) standards and their application to web design
- cyber security procedures and protocols applicable to developing web page layouts

- organisational procedures applicable to developing web page layouts.

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:

- hardware, software and its components required to develop complex web pages
- design specifications brief
- a variety of browsers and digital devices
- the internet
- web page testing and debugging tools required to test complex web pages.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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