



Australian Government

ICTWEB520 Develop complex cascading style sheets

Release: 1

ICTWEB520 Develop complex cascading style sheets

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 develop complex cascading style sheets (CSS) that are attached to a markup language document.

It applies to individuals working as web designers and developers, who are involved in the layout and appearance of web pages have a highly developed understanding of design principles and software languages and can apply protocols and standards proficiently.

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. Determine CSS requirements	1.1 Identify and confirm applicable legislative and organisational standards and procedures applicable to CSS development 1.2 Identify and review user style requirements 1.3 Evaluate and select applicable markup language according to technical requirements
2. Develop CSS and web pages	2.1 Create CSS according to technical requirements 2.2 Style, lay out and position document elements of web page using advanced CSS techniques 2.3 Apply style sheets to applicable web pages in a website
3. Test and validate CSS and web pages	3.1 Debug web page and CSS and confirm security using cyber security procedures and protocols

ELEMENT	PERFORMANCE CRITERIA
	3.2 Test website in various browsers and devices 3.3 Rectify browser and device differences and confirm accessibility of website 3.4 Confirm user requirements are met and obtain sign-off 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
Oral communication	• Uses listening, questioning and summarising techniques to clarify job specifications with required personnel
Reading	• Identifies and analyses technical, workplace and industry information, and confirms all job requirements are met
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
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 communicate with others in a secure and stable digital environment

Unit Mapping Information

Supersedes and is equivalent to ICTWEB506 Develop complex cascading style sheets.

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 ICTWEB520 Develop complex cascading style sheets

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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 a complex website, styled and formatted, using cascading style sheets (CSS) according to technical requirements.

In the course of the above, the candidate must:

- create a complex page layout using CSS
- test web pages in at least two different browsers and on at least two different devices
- comply with industry and organisational standards 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:

- principles of website design
- hypertext transfer protocol (HTTP) protocol and its application to CSS
- hypertext markup language (HTML) and extensible hypertext markup language (XHTML)
- CSS rules and standards impact on document styling and layout
- methods in applying style sheets to web pages
- website accessibility requirements, including World Wide Web Consortium (W3C) standards
- website testing and debugging methods
- techniques to amend browser incompatibilities
- organisational procedures applicable to developing CSS
- cyber security procedures and protocols.

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 use complex CSS
- design specifications brief
- applicable markup language
- markup language documents to have CSS applied to them
- the internet
- a variety of browsers and digital devices
- web page testing and debugging tools required for testing 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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