



Australian Government

Department of Education, Employment and Workplace Relations

ICAWEB505A Develop complex web page layouts

Release: 1

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Modification History

Version	Comments
ICAWEB505A	This version first released with <i>ICA11 Information and Communications Technology Training Package version 1.0</i>

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to design and create a web page layout to an advanced level.

Application of the Unit

This unit applies to web designers and web developers who are involved in the layout and appearance of web pages.

Licensing/Regulatory Information

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement but users should confirm requirements with the relevant federal, state or territory authority.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Element	Performance Criteria
<i>Elements describe the essential outcomes of a unit of competency.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</i>

Elements and Performance Criteria

1. Build a web page according to the design prototype	1.1 Identify main sections of the web page layout 1.2 Create web page structure 1.3 Position web page elements to achieve design specification
2. Ensure web page is validated and tested in major browsers	2.1 Validate cascading style sheet (CSS) against industry standards 2.2 Correct browser incompatibilities using the most robust techniques 2.3 Test website in various browsers
3. Ensure website is accessible	3.1 Check website is accessible to ensure it can be viewed 3.2 Check website sections to ensure accessibility 3.3 Check web page elements to ensure accessibility

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- analytical skills to identify appropriate CSS rules to be applied to obtain desired result
- communication skills to liaise with end users
- initiative and enterprise skills to recommend design features
- literacy skills to:
 - follow documented instruction from a supplied guide
 - interpret workplace instructions and other technical documents
 - keep up-to-date with latest industry guidelines
- numeracy skills to:
 - work with document element dimensions
 - work with relative and absolute measurements
- planning and organisational skills to:
 - create the CSS in allocated timeframe
 - plan the layout of the web page
- problem-solving skills to:
 - create web pages that will function in a variety of screen resolutions
 - resolve browser incompatibilities
- research skills to identify latest industry guidelines
- learning skills to keep up-to-date with industry guidelines and make recommendations
- technical skills to:
 - produce valid accessible web pages
 - use CSS in the most efficient and effective way.

Required knowledge

- overview knowledge of design principles
- detailed knowledge of:
 - hypertext markup language (HTML) and eXtensible hypertext markup language (XHTML)
 - CSS
 - hypertext transfer protocol (HTTP)
 - World Wide Web Consortium (W3C) standards
 - techniques to correct browser incompatibilities.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Evidence of the ability to: • develop a complex website layout • layout page elements to suit a variety of devices • test web pages in a variety of browsers • validate the pages against industry standards.
Context of and specific resources for assessment	Assessment must ensure access to: • appropriate learning and assessment support when required • modified equipment for people with special needs • computer • aesthetic presentation brief • variety of browsers • internet access to validate web pages against W3C.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: • evaluation of newly created or modified complex web page layouts • verbal or written questioning to assess candidate's knowledge and skills.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, where appropriate. Assessment processes and techniques must be culturally appropriate, and suitable to the communication skill level, language, literacy and numeracy capacity of the candidate and the work being performed. Indigenous people and other people from a non-English speaking background may need additional support. In cases where practical assessment is used it should be combined with targeted questioning to assess required knowledge.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Industry standards may include:	• W3C • Web 2.0.
Browser may include:	• Firefox • Google Chrome • Internet Explorer • Konqueror • Lynx • Mozilla • Netscape Navigator • Opera • Safari.
Accessible may relate to:	• enabling web pages to be used in text browsers • making sure web pages can be viewed in a variety of platforms, including mobile devices • making sure website content is accessible to people with visual impairment.

Unit Sector(s)

Web

Custom Content Section

Not applicable.