



Australian Government

Department of Education, Employment and Workplace Relations

ICAWEB429A Create a markup language document to specification

Release: 1

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Modification History

Release	Comments
Release 1	This Unit first released with <i>ICAI1 Information and Communications Technology Training Package version 1.0</i>

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to design, create and save a markup language document to a given specification using a text editor rather than an authoring tool.

Application of the Unit

This unit applies to web designers and developers responsible for the creation of web pages using a markup language.

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. Analyse specifications and requirements	1.1 Determine uses and audience of the document 1.2 Determine appropriate markup language based on document uses and audience and current industry best practice 1.3 Determine document structure
2. Create document structure	2.1 Create and assign basic elements of the document, taking into account accessibility 2.2 Mark up sections of the document to describe the structure
3. Incorporate web page components	3.1 Identify web page components 3.2 Evaluate suitable web page components 3.3 Include required web page components
4. Validate documents	4.1 Validate markup language document against specifications and record outcomes 4.2 Validate markup language document in different browsers for compatibility and record outcomes

Required Skills and Knowledge

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

Required skills

- analytical skills to determine uses, audience and document structure
- 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
- problem-solving skills to use markup language and troubleshoot problems
- technical skills to use a markup language to create the required web page.

Required knowledge

- markup language and associated standards
- range of available browsers' web accessibility.

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	<p>Evidence of the ability to:</p> <ul style="list-style-type: none"> • design, create and save a markup language document using a markup language without the automated generation of code.
Context of and specific resources for assessment	<p>Assessment must ensure access to:</p> <ul style="list-style-type: none"> • organisational style guide or policy • user requirements • text editor • range of browsers • internet to validate markup • appropriate learning and assessment support when required. <p>Where applicable, physical resources should include equipment modified for people with special needs.</p>
Method of assessment	<p>A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:</p> <ul style="list-style-type: none"> • evaluation web pages prepared by candidate using a text editor • evaluation of candidate's validated markup code results in commonly used browsers • validation of candidate's markup correctness against standards set by the World Wide Web Consortium (W3C).
Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, where appropriate.</p> <p>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.</p> <p>Indigenous people and other people from a non-English speaking background may need additional support.</p> <p>In cases where practical assessment is used it should be combined with targeted questioning to assess required</p>

	knowledge.
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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.

Markup language may include:	<ul style="list-style-type: none"> • dynamic hypertext markup language (DHTML) • hypertext markup language (HTML) • standard generalised markup language (SGML) • virtual reality modelling language (VRML) • eXtensible hypertext markup language (XHTML) • eXtensible markup language (XML).
Accessibility may be related to:	<ul style="list-style-type: none"> • browser software, user agent and versions • cultural awareness • ethnicity • physical impairments • remote locations.
Structure may include elements such as:	<ul style="list-style-type: none"> • headings • lists • paragraphs.
Web page components may include:	<ul style="list-style-type: none"> • flash movies • images • links • lists • tables.
Browsers may include:	<ul style="list-style-type: none"> • Firefox • Google chrome • Internet Explorer • Konqueror • Lynx • Mozilla • Opera • Safari.

Unit Sector(s)

Web