



Australian Government

ICTWEB501 Build a dynamic website

Release: 1

ICTWEB501 Build a dynamic website

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to analyse and design websites to meet technical requirements.

It applies to individuals working as web developers who are responsible for the analysis, design, implementation, and testing of 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. Define and analyse the technical requirements	1.1 Identify the business requirements and appropriate standards 1.2 Determine and document, the purpose, expectations and functionality of the website 1.3 Analyse the user-interface design requirements, including user needs, design principles and operating systems
2. Produce the software design specifications	2.1 Produce a hierarchy of the website showing navigation 2.2 Ensure that the content is logical and accessible to the user 2.3 Produce the prototype of the user interface 2.4 Determine and document, the architectural requirements

ELEMENT	PERFORMANCE CRITERIA
	2.5 Design the data storage requirements
3. Develop the website to the specified design	3.1 Create the software components of the website 3.2 Test the components of the website 3.3 Integrate the components to produce the web application
4. Test the web application	4.1 Test the website against the requirements 4.2 Complete and document the design structure 4.3 Obtain client feedback and adjust web applications as appropriate

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.2, 2.2, 2.4, 4.1	Critically analyses complex documentation from a variety of sources, and consolidates information, relating to specific criteria to determine requirements
Writing	1.2, 2.1, 2.3-2.5, 3.1, 3.3, 4.2	- Prepares documentation expressing ideas and exploring complex issues, that is constructed logically, succinctly and accurately - Writes and edits computer code and technical data, to ensure syntax and accuracy
Navigate the world of work	1.1	Takes full responsibility for following policies, procedures and standards
Interact with others	2.2, 4.3	Selects, implements and seeks to improve protocols governing communications to clients and co-workers, in a range of work contexts
Get the work done	1.1-1.3, 2.2-2.5, 3.1-3.3, 4.1, 4.3	- Accepts responsibility for planning and sequencing complex tasks and workload, negotiating key aspects with others, and taking into account capabilities, efficiencies and effectiveness - Applies systematic and analytical decision-making processes for complex and non-routine situations - Uses and investigates new digital technologies, and

		applications, to manage and manipulate data, and communicate effectively with others, in a secure and stable digital environment
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTWEB501 Build a dynamic website	ICAWEB501A Build a dynamic website	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTWEB501 Build a dynamic website

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Performance Evidence

Evidence of the ability to:

- analyse the technical requirements for a dynamic web site
- produce software design specifications
- create a website, using efficient and effective code to meet the technical requirements, and test and document a website against the requirements.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- summarise the principles of analysis and design
- outline programming control and design structures, and object-oriented programming
- explain web programming concepts, including:
 - authentication and web security
 - hypertext transfer protocol (HTTP)
 - session management
 - stateless programming.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the website technologies field of work, and include access to:

- a development environment
- a server

- a database server
- browsers.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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