



Australian Government

ICTWEB503 Create web-based programs

Release: 1

ICTWEB503 Create web-based programs

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 develop web applications.

It applies to individuals who work as web developers and have well-honed technical skills to take responsibility for implementing code required to create web applications.

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 the hypertext transfer protocol (HTTP) and its implications when developing web applications	1.1 Identify the hypertext transfer protocol (HTTP) required 1.2 Recognise the limitations HTTP has when developing web applications 1.3 Identify the advantages of HTTP in developing web applications
2. Implement session management	2.1 Create the code to handle session management 2.2 Create the code that retains the user's interaction with the website 2.3 Review and debug the code
3. Develop applications in	3.1 Develop web applications that keep track of data between

ELEMENT	PERFORMANCE CRITERIA
a stateless environment	browser requests 3.2 Document the web application, with particular reference to its management of statelessness

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, 2.3	Identifies and analyses the code for syntax and accuracy
Writing	1.1, 1.2, 2.1, 2.2, 2.3, 3.1, 3.2	- 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
Oral Communication	1.1, 1.2	Clearly explains detailed information using the language, tone and pace appropriate to the audience
Get the work done	1.3, 2.1-2.3, 3.1, 3.2	- 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

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status

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ICTWEB503 Create web-based programs	ICAWEB503A Create web-based programs	Updated to meet Standards for Training Packages. Minor edits to the performance criteria for clarity.	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 ICTWEB503 Create web-based programs

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Performance Evidence

Evidence of the ability to:

- recognise the hypertext transfer protocol (HTTP), and its limitations
- implement session management
- develop web applications that track user data
- document web applications.

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:

- outline the principles of web analysis and design
- explain programming control structures and object-oriented programming
- summarise 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 website development environment
- a server

- a database server
- web browsers.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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