



Australian Government

ICTWEB507 Customise a complex ICT content management system

Release: 1

ICTWEB507 Customise a complex ICT content management system

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 create, and customise, an information and communications technology (ICT) content management system (CMS) powered website using an open source, to meet client requirements.

It applies to individuals working as web developers who have a detailed knowledge of markup languages and their associated standards, and are proficient in server-side language and security techniques. Individuals in this role also have high-level understanding of server functionality.

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. Analyse the specifications and requirements	1.1 Determine the required functionality of the website, as per the client requirements 1.2 Determine the appropriate server-side language and hosting environment 1.3 Determine additional functionality that the CMS will not be able to handle 'out of the box' 1.4 Determine the functional requirements of the client's

ELEMENT	PERFORMANCE CRITERIA
	additional functionality 1.5 Determine any pre-existing restraints that need to be considered when developing the website solution
2. Develop customisation	2.1 Plan and outline, the requirements of the additional functionality 2.2 Create and develop plug-in, extension or new functionality to the CMS to meet client requirements
3. Create a CMS powered website	3.1 Install and configure, the chosen content management system 3.2 Install and integrate, the new CMS functionality
4. Validate and evaluate	4.1 Validate the final website markup against the current website standards 4.2 Validate CMS performance in different browsers, checking compatibility and core CMS functionality 4.3 Validate the developed additional functionality against the client requirements

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, 1.3, 3.1, 3.2, 4.3	Critically analyses complex specifications, computer program manuals, and other documentation from a variety of sources and, consolidates information, to determine requirements
Writing	2.1, 2.2, 3.1, 3.2	- Prepares documentation expressing ideas, explores complex issues and is constructed logically, succinctly and accurately - Writes and edits computer code, and technical data, to ensure syntax and accuracy
Oral Communication	1.1, 4.3	Uses listening and questioning techniques to determine client requirements, and clearly articulates ideas and solutions, using specific and relevant language suitable to the audience

Navigate the world of work	4.1	• Takes full responsibility for following policies, procedures and industry standards
Get the work done	1.1-1.5, 2.1, 3.1, 3.2, 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 to 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
ICTWEB507 Customise a complex ICT content management system	ICAWEB507A Customise a complex IT content management system	Updated to meet Standards for Training Packages. Minor edit to the title.	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 ICTWEB507 Customise a complex ICT content management system

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Performance Evidence

Evidence of the ability to:

- create a content management system (CMS) powered website, using an open source with additional custom functionality that is not available ‘out of the box’, that meets client requirements
- perform basic content manipulation tasks in commonly used browsers
- evaluate content management additional functionality against current programming and security standards
- customise functionality into a pre-existing core CMS, to fulfil client requirements by programming
- validate the front-end code markup against standards set by the World Wide Web Consortium (W3C).

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:

- analyse and describe, a range of content management systems and their respective functionality
- explain markup language and their associated standards
- outline server functionality in relation to the client and business requirements
- describe and apply, server-side language and security techniques
- explain the importance of web accessibility.

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:

- the client requirements, and content
- a text editor
- a range of browsers
- the internet for research, validation of code and programming documentation.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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