Australian Government

ICTWEB447 Build basic website using development software and ICT tools

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to build a basic website, consistent with the design, technical requirements and expectations, of a client's business, using industry standard software and tools.

The unit applies to individuals working as web developers who use a wide range of knowledge and skills across a range of general information and communications technology (ICT) environments and support small to medium enterprises (SMEs) requiring broader, rather than more specialised, ICT support.

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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Analyse website structure and select required software and development tools	1.1 Analyse client specifications and select required development software according to business requirements 1.2 Identify website technical needs and select applicable software tools 1.3 Identify and confirm website design including structure and navigation flow and document according to organisational procedures 1.4 Review design documentation and integrate design

ELEMENT	PERFORMANCE CRITERIA
	work according to web development standards
2. Construct site	2.1 Build website using selected development software and applicable tools according to client specifications
	2.2 Take action and confirm user input during website construction
	2.3 Validate existing information and basic content when incorporating data on website
	2.4 Apply consistent design specifications to all aspects of website
	2.5 Gather feedback from user on web design, content, accessibility and structure, using feedback mechanisms
3. Complete and validate website construction and content	3.1 Undertake an evaluation of website against technical requirements and design specification
	3.2 Test each function and process of website and confirm functionality on various browsers and devices
	3.3 Conduct navigation tests and hypertext markup language (HTML) compliance with website standards
	3.4 Test and debug website according to cyber security procedures and protocols
	3.5 Stress test website and confirm design criteria and user load are met
	3.6 Record testing results and confirm website meets user requirements
	3.7 Obtain sign-off and approval of required personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	• Critically analyses complex documentation from a variety of sources and consolidates information relating to specific criteria to determine requirements
Writing	• Prepares and produces dynamic material for a specific audience, using clear and detailed language and conveys explicit information, requirements and recommendations

SKILL	DESCRIPTION
Teamwork	• Selects and uses applicable conventions and protocols when communicating with clients in a range of work contexts • Establishes a sense of connection and builds rapport with clients and co-workers using a range of strategies
Problem solving	• Makes routine decisions and implements standard procedures for routine tasks, using formal decision-making processes for more complex and non-routine situations • Addresses less predictable problems and initiates standard procedures in response to these problems, applying problem-solving processes in determining a solution
Self-management	• Accepts responsibility and ownership for task and makes decisions on completion parameters and need for coordination with others • Takes personal responsibility for following explicit and implicit policies, procedures and standards • Elicits and provides feedback to others • Takes responsibility for planning, sequencing and prioritising tasks and own workload
Technology	• Uses familiar digital technologies and systems to access information, search and enter data and code, present information and communicate with others, cognisant of data security and safety

Unit Mapping Information

Supersedes and is equivalent to ICTWEB418 Use development software and ICT tools to build a basic website.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2