ICTWEB407 Conduct operational acceptance tests of websites

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 1.0.

Application

This unit describes the skills and knowledge required to provide high-level assurance, that websites can be effectively and efficiently provisioned and deployed live, in a systematic manner.

It applies to individuals employed as web designers and web developers who are involved in testing the effectiveness 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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Prepare the test	1.1 Establish and document, the testing framework and schedule
	1.2 Determine the processes and functions to be tested, and assign the quantitative and qualitative performance benchmarks to each process and function
	1.3 Benchmark and document the page templates, style guides and expected traffic loads
	1.4 Determine and document the test methodology
	1.5 Assemble and brief, the testing panel on the conduct of the test
	1.6 Develop user and installation manuals, according to the target audience's understanding and needs

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ELEMENT	PERFORMANCE CRITERIA
2. Test individual pages	2.1 Test the pages, against style guides and templates
	2.2 Test the pages, for consistency in structure and content
	2.3 Apply the automatic testing software
	2.4 Document page gross statistics of confirmed results of tests
3. Test page relationships against the business requirements	3.1 Test the installation, and the examples listed in instruction manual
	3.2 Test page navigability using a variety of browsers
	3.3 Test the ease of use and functionality against the requirements
	3.4 Test software interface points, against the business and technical requirements
	3.5 Test site security and privacy against the business requirements
	3.6 Test the response time against the business requirements
	3.7 Conduct load simulation testing, using single and multiple independent browsers, or automated load testing tools
4. Apply and document further tests	4.1 Test the website's ability to handle concurrent access
	4.2 Test conformance to the applicable privacy, accessibility, and acceptable usage policy standards
	4.3 Apply the automatic testing software
	4.4 Collect, collate and document the results from the sample user, and data from the automated test
5. Evaluate the test results	5.1 Consolidate and compare the results to the benchmarks
	5.2 Identify results that fail to meet the benchmarks, and conduct a site remedial iteration
	5.3 Record and document the test results as the site performance baseline, against which further development or updating can be measured
	5.4 Provide evaluation feedback to the appropriate person
	5.5 Ensure that the appropriate person signs off on the site, prior to the 'go live' date

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	1.1-1.4, 2.1-2.3, 3.1-3.7, 4.1, 4.2, 5.1, 5.2	• Examines, constructs, organises and validates relationships, between both discrete and interrelated data and information
Writing	1.6, 2.4, 4.4, 5.1-5.5	• Produces a concise formal document that conveys technical information and procedures, utilising the appropriate format, technical language, correct spelling and grammar • Uses specific software and technical language to create, format, review, save and access documents
Oral Communication	1.5, 5.4, 5.5	• Conveys information by participating in verbal exchanges including listening, questioning and discussing, data and information with a group of people in order to elicit an understanding of, and obtain a consistency of approach to, work requirements • Uses clear and detailed verbal language in order to convey explicit information, and to elicit approval for proposed solutions and activities
Numeracy	1.2, 2.4, 5.1, 5.3	• Determines analyses and presents, numerical and statistical, data to inform the decisions and actions to be taken to achieve pre-determined outcomes
Navigate the world of work	3.4, 3.5, 3.6, 4.2,	• Ensures compliance of the product against business requirements and against the protocols
Get the work done	1.1-1.6, 2.1-2.4, 3.1-3.7, 4.1-4.4, 5.1-5.5	• Sequences and schedules complex activities, monitors implementation, and manages relevant communication • Develops options, resolves issues, designs and implements tests, to ascertain the functionality of solutions prior to full implementation • Utilises a combination of lateral and analytical thinking, to design, and refine, ideas to suit needs, resources and constraints • Uses a range of digitally-based technologies and the software packages and hardware required for creating, and refining, websites

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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTWEB407 Conduct operational acceptance tests of websites	ICAWEB407A Conduct operational acceptance tests of websites	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2