



Australian Government

ICTWEB438 Conduct operational acceptance tests of websites

Release: 1

ICTWEB438 Conduct operational acceptance tests of websites

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 provide high-level assurance that websites can be effectively and efficiently provisioned and deployed live, in a systematic manner.

The unit 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
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare test and establish testing framework and methodology	1.1 Establish and document testing framework and schedule 1.2 Determine processes and functions requiring testing and assign quantitative and qualitative performance benchmarks to each process and function 1.3 Document page templates, style guides and expected traffic loads 1.4 Determine and document test methodology and select automatic testing software 1.5 Assemble and brief testing panel on conduct of test 1.6 Develop user and installation manuals according to user needs and requirements

ELEMENT	PERFORMANCE CRITERIA
2. Test individual pages and page relationships against business requirements	2.1 Test pages against style guides and templates and confirm consistency of structure and content 2.2 Apply automatic testing software 2.3 Document page statistics of confirmed test results 2.4 Test installation and examples listed in instruction manual 2.5 Assess page navigability, response time and functionality using a variety of browsers and devices against business requirements 2.6 Test software interface points, site security and privacy against business and technical requirements 2.7 Conduct load simulation testing, using single and multiple independent browsers, or automated load testing tools 2.8 Obtain and complete test sign-off sheets for applicable tests
3. Apply and document further tests	3.1 Test website's ability to handle concurrent access 3.2 Conform to applicable privacy, accessibility and acceptable usage policy standards 3.3 Apply automatic testing software 3.4 Collect, collate and document results from sample user and data from automated test 3.5 Obtain and complete test sign-off sheets for further tests performed
4. Evaluate test results	4.1 Consolidate and compare results to benchmarks 4.2 Identify results that fail to meet benchmarks and conduct a site remedial iteration 4.3 Record and document test results as site performance baseline, against which further development and updating can be measured 4.4 Provide evaluation feedback to required personnel and obtain signoff prior to going live

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
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SKILL	DESCRIPTION
Numeracy	<ul style="list-style-type: none"> Determines, analyses and presents, numerical and statistical, data and informs decisions and actions required
Oral communication	<ul style="list-style-type: none"> Conveys information by participating in verbal exchanges including listening, questioning and discussing, data and information
Reading	<ul style="list-style-type: none"> Examines, constructs, organises and validates relationships, between both discrete and interrelated data and information
Writing	<ul style="list-style-type: none"> Produces a concise formal document and conveys technical information and procedures using required format, technical language and spelling and grammar
Problem solving	<ul style="list-style-type: none"> Develops options, resolves issues, designs and implements tests and ascertains functionality of solutions prior to full implementation Designs and refines ideas according to needs, resources and constraints using a combination of lateral and analytical thinking
Self-management	<ul style="list-style-type: none"> Complies with product and business requirements and protocols Sequences and schedules complex activities, monitors implementation and manages communication
Technology	<ul style="list-style-type: none"> Creates and refines websites using a range of digitally-based technologies and software packages and hardware

Unit Mapping Information

Supersedes and is equivalent to ICTWEB407 Conduct operational acceptance tests of websites.

Links

Companion Volume Implementation Guide is found on VETNet -

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