



**Australian Government**

# **ICTWEB423 Ensure dynamic website security**

**Release: 1**

## ICTWEB423 Ensure dynamic website security

### 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 ensure, and maintain, the security of a dynamic commercial website.

It applies to individuals working as website developers responsible for security of dynamic websites, who are proficient communicators and can analyse technical data capably and with efficiency.

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. Undertake the risk assessment	<p>1.1 Identify the functionality and features of the website, and confirm these with the client</p> <p>1.2 Identify security threats, with reference to the functionality of the site and organisational security policy, legislation and standards</p> <p>1.3 Complete a risk analysis to prioritise the security threats, and identify system vulnerabilities</p> <p>1.4 Identify resource and budget constraints, and validate with the client as required</p> <p>1.5 Source the appropriate products, security services and</p>

ELEMENT	PERFORMANCE CRITERIA
	equipment, according to enterprise purchasing policies
2. Secure the operating systems	2.1 Identify operating system (OS) and cross-platform vulnerabilities 2.2 Make the appropriate scripting or configuration adjustments, with reference to the functionality of the site and the security policy 2.3 Identify and rectify weaknesses specific to the OS
3. Secure the site server	3.1 Configure the web server securely, with reference to the required functionality and the security policy 3.2 Review and analyse, server-side scripting with reference to the required functionality and the security policy 3.3 Install firewalls as required 3.4 Establish access control permissions to the server and database
4. Secure data transactions	4.1 Identify data transactions, with reference to the functionality and features of the website 4.2 Identify and apply, the channel protocols related to the requirements 4.3 Install and configure, the payment systems
5. Monitor and document the security framework	5.1 Develop a program of selective independent audits and penetration tests 5.2 Determine the performance benchmarks 5.3 Implement audit and test programs, and record, analyse and report the results 5.4 Make security framework changes based on the test results 5.5 Develop the site-security plan, with reference to the security policy and requirements 5.6 Develop and distribute, related policy and procedures to the client

## Foundation Skills

*This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.*

Skill	Performance	Description
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	Criteria	
Reading	1.3-1.5, 2.1, 2.3, 3.2, 4.1, 4.2, 5.4	<ul style="list-style-type: none"> <li>Reads and interprets plans, specifications, computer program interface, and other documentation from a variety of sources, and consolidates information to determine requirements</li> </ul>
Writing	1.1, 1.3, 1.4, 2.2, 3.3, 4.3, 5.1, 5.2, 5.3, 5.5, 5.6	<ul style="list-style-type: none"> <li>Makes adjustments to software scripting, and creates procedural and related workplace documentation, for a specific audience, using clear and detailed language in order to convey explicit information</li> </ul>
Oral Communication	1.1, 1.3, 1.4, 5.3, 5.6	<ul style="list-style-type: none"> <li>Uses listening and questioning skills to confirm understanding for technical, operational and business requirements, participates in a verbal exchange of ideas/solutions, and uses appropriate, detailed and clear language to address the client</li> </ul>
Numeracy	1.4, 1.5, 4.3	<ul style="list-style-type: none"> <li>Undertakes numerical analyses during testing, and calculates, and evaluates system results and performance</li> </ul>
Navigate the world of work	1.2, 1.5, 3.1, 3.2, 5.5	<ul style="list-style-type: none"> <li>Accepts responsibility and ownership of tasks, and makes decisions on completion parameters, and the need for coordination with others</li> <li>Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements</li> </ul>
Interact with others	1.1, 1.4, 5.6	<ul style="list-style-type: none"> <li>Selects and uses, the appropriate conventions and protocols, when communicating with clients and co-workers in a range of work contexts</li> </ul>
Get the work done	1.1-1.5, 2.2, 2.3, 3.2-3.4, 4.3, 5.1-5.5	<ul style="list-style-type: none"> <li>Takes responsibility for planning, sequencing and prioritising tasks and own workload, for efficiency and effective outcomes</li> <li>Makes routine decisions and implements standard procedures for routine tasks, using formal decision-making processes for more complex and non-routine situations</li> <li>Addresses less predictable problems and initiates standard procedures in response to these problems, applying problem-solving processes in determining a solution</li> <li>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</li> </ul>

## Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTWEB423 Ensure dynamic website security	ICAWEB423A Ensure dynamic website security	Updated to meet Standards for Training Packages	Equivalent unit

## Links

Companion Volume implementation guides are found in VETNet -

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