



Australian Government

ICTCYS609 Evaluate threats and vulnerabilities of IoT devices

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 gather Internet of Things (IoT) devices and data from various sources and evaluate and identify threats and vulnerabilities.

It applies to those who work as IoT developers or cyber security and risk analysts and are responsible for cyber security activities including the evaluating IoT devices for threats and vulnerabilities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Cyber security

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. Develop evaluation strategy	1.1 Research and determine an organisation's requirements for evaluation of IoT devices 1.2 Research organisational operations, environment and culture and determine perceived threats and vulnerabilities 1.3 Develop and document evaluation strategy according to organisational requirements, policies and procedures 1.4 Submit evaluation strategy to required personnel and seek and respond to feedback
2. Prepare to value IoT devices	2.1 Prepare devices for evaluation according to technical specifications 2.2 Secure data and networks according to technical specifications

3. Conduct evaluation	3.1 Run evaluation according to documented strategy and organisational policies and procedures 3.2 Confirm and document identified vulnerabilities and threats according to organisational policies and procedures 3.3 Document evaluation results according to organisational guidelines and requirements
4. Interpret and finalise findings	4.1 Analyse evaluation findings and determine completeness and accuracy 4.2 Categorise negative findings into threats and vulnerability and determine level of potential impact to operational activities 4.3 Develop and document recommendations to remediate threat potential and lessen vulnerabilities 4.4 Document finalised results and recommendations according to organisational requirements 4.5 Lodge documentation according to organisational policies and procedures

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
Numeracy	• Uses mathematical formulae to determine requirements for evaluating quantitative findings
Reading	• Identifies technical, manufacturer and organisational from documentation to determine and confirm job requirements
Writing	• Prepares complex workplace documentation detailing processes and outcomes using required structure, layout and required language
Planning and organising	• Develops the operational detail in stages, regularly reviewing priorities and performance during assessment procedure, and identifies and addresses issues of non-compliance
Problem solving	• Identifies context to recognise anomalies and subtle deviations to normal expectations, focusing attention and remedying problems as they arise
Self-management	• Takes full responsibility for identifying and considering organisational protocols and requirements
Technology	• Identifies principles, concepts, language and practices associated with the digital and cyber world

Unit Mapping Information

No equivalent unit. New unit.

Links

Companion Volume Implementation Guide is found on VETNet -

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