Australian Government

ICTNWK502 Implement secure encryption technologies

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 ensure secure file encryption is selected, implemented and monitored on a computer network or local environment.

It applies to individuals working as information and communications technology (ICT) professionals who may select, implement and monitor a secure encryption environment in any size enterprise.

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

Unit Sector

Networking

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. Determine encryption methods	1.1 Analyse enterprise data security requirements 1.2 Create a new or review an existing security plan to determine appropriate encryption methods 1.3 Review a range of encryption technologies and rank the most appropriate options 1.4 Assess the costs associated with each encryption option 1.5 Document encryption options and costs, and forward to appropriate person for decision
2. Implement encryption	2.1 Apply encryption technologies to the enterprise system 2.2 Analyse effect of encryption technologies on user roles and

ELEMENT	PERFORMANCE CRITERIA
	responsibilities
	2.3 Inform user of new encryption technologies and the effect it has on their responsibilities
3. Monitor encryption	3.1 Analyse implementation of the encryption technologies, confirming function and performance
	3.2 Review help desk records for problems concerning implementation and take appropriate action
	3.3 Review system logs for encryption issues and compromises
	3.4 Document encryption issues and compromises, and notify appropriate person

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, 3.2	• Gathers, interprets and analyses technical data to determine security requirements and help desk records to interpret technical compromises
Writing	1.1, 1.3, 1.5, 3.4	• Prepares workplace documentation that incorporates an evaluation of technical information and specialised and cohesive language in a format and style appropriate to a specific audience
Oral Communication	2.3, 3.4	• Articulates requirements and responsibilities clearly and distinctively, using technical language appropriate to audience and environment
Numeracy	1.4	• Uses mathematical formulas and calculations to undertake a cost-benefit analysis
Navigate the world of work	1.1	• Recognises and follows explicit and implicit protocols, and meets expectations associated with own role
Interact with others	1.5	• Selects the appropriate form, channel and mode of communication for a specific purpose relevant to own role
Get the work done	1.3, 2.1, 2.2, 3.1-3.3	• Uses a combination of formal, logical planning processes and an increasingly intuitive understanding of context to determine data security

		threats, risks and countermeasures
		• Manages and maintains data securely and actively monitors technology, notifying others if security becomes compromised
		• Understands the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks
		• Initiates standard procedures when responding to familiar problems to troubleshoot, debug and correct connectivity and security issues

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK502 Implement secure encryption technologies	ICANWK502A Implement secure encryption technologies	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