



Australian Government

ICTSAS517 Use network tools

Release: 1

ICTSAS517 Use network tools

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 use tools to assist in managing a network effectively.

It applies to individuals who apply technical and specialised knowledge to monitor security and resolve issues for the network.

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

Unit Sector

Systems administration and support

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. Use command line tools	1.1 Analyse command-line environment 1.2 Differentiate command-line and graphical user interface (GUI) systems 1.3 Identify command-line tools 1.4 Apply command-line tools in GUI environment
2. Use hardware tools	2.1 Identify appropriate hardware tools and their function 2.2 Review work health and safety (WHS) requirements for tool use 2.3 Manage network using hardware tools

ELEMENT	PERFORMANCE CRITERIA
	2.4 Analyse test results
3. Use software tools	3.1 Identify appropriate software tools for network security 3.2 Determine areas of vulnerability 3.3 Classify function of each tool 3.4 Manage network using software tools 3.5 Analyse test results

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, 2.1, 2.2, 3.1	Identifies and interprets textual information and numerical data from a range of sources to determine necessary actions
Writing	1.3	Records textual and numerical data in format specific to requirements
Numeracy	3.5	Uses mathematical equations to calculate numerical data and compare test outcomes
Get the work done	1.1-1.3, 2.1, 2.3, 2.4, 3.1-3.5	- Accepts responsibility for planning, prioritising and sequencing complex tasks and workload - Uses problem solving techniques to analyse required outcomes and manage the network - Uses digital technologies to manage network operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSAS517 Use network	ICASAS517A Use network	Updated to meet	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
tools	tools	Standards for Training Packages. Minor edits to the performance criteria for clarity.	

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTSAS517 Use network tools

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Performance Evidence

Evidence of the ability to:

- to manage a network effectively
- identify and use appropriate hardware and software tools:
- monitor network performance
- identify network threats
- isolate security breaches.

Note: Evidence must be provided on at least TWO networks or occasions.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- describe available network tools
- explain processes and techniques related to using network tools
- analyse key features of the range of attacks that affect network security
- discuss key problems and challenges relating to network security.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the systems administration and support field of work, and include access to:

- special purpose tools, equipment and materials
- hardware and software tools
- security diagnostic software
- maintenance procedures
- network system.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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