



Australian Government

ICTNWK307 Provide network systems administration

Release: 1

ICTNWK307 Provide network systems administration

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 manage the technical elements of a network, including contributing to a disaster recovery plan and network systems performance monitoring.

It applies to individuals working as frontline technical support personnel, who are responsible for network systems administration.

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
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to provide network systems administration	1.1 Identify network performance requirements 1.2 Determine required security level according to organisational requirements 1.3 Determine required capacity of network according to organisational requirements 1.4 Determine required user access privileges and usage according to user account records and organisation policies and procedures
2. Provide client access and security features	2.1 Provide logins, passwords and applications to users according to organisational requirements 2.2 Provide file access to required users according to organisational requirements

ELEMENT	PERFORMANCE CRITERIA
	2.3 Prepare documented security user data according to organisational policies and procedures
3. Monitor network performance	3.1 Analyse and respond to diagnostic information according to organisational requirements 3.2 Monitor software usage and identify any inappropriate or illegal use according to organisational policies and procedures 3.3 Delete any identified illegal software from network 3.4 Monitor hardware response time, and required performance indicators 3.5 Provide feedback to required personnel on performance indicators

Foundation Skills

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

SKILL	DESCRIPTION
Reading	- Interprets contextual information from organisational guidelines - Interprets systems design terminology, syntax and diagrams, and applies information to task
Writing	Prepares documentation outlining security user data according to organisational procedures
Oral Communication	Obtains information to confirm task requirements and provides feedback to required personnel using succinct verbal language
Numeracy	Interprets numerical data relating to network operations and performance indicators
Teamwork	Selects appropriate form, channel and mode of communication for a specific purpose, relevant to own role
Planning and organising	- Plans own work requirements and prioritises actions to achieve required outcomes - Ensures tasks are completed within workplace timeframes - Takes responsibility for planning and organising own workload, identifying ways of sequencing and combining elements for greater efficiency, and considering how to link with work of others
Problem solving	Responds to highly obvious routine problems, using step by step instruction and procedures, or by a trial and error process, for non-critical situations

Technology	• Demonstrates an understanding of purposes, specific functions and key features of common digital systems, and tools, and operates them effectively to complete routine tasks
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Unit Mapping Information

Supersedes and is equivalent to ICTNWK301 Provide network systems administration.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTNWK307 Provide network systems administration

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, and to:

- sustain the operation of at least one network and meet organisational specifications
- use diagnostic test results to maintain network's integrity.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- network's operating system
- key elements of a disaster recovery policy
- features of network file and folder permissions
- vendor service-level agreements
- operating systems supported by an organisation, including functions and basic features
- organisational policies and procedures including:
 - access, security and networks
 - protection against, and elimination of computer viruses
 - deleting, restoring and archiving files
 - creating logons
- personal responsibilities for software copyright.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- a live network
- industry standard systems administration tools

- organisational policy and procedures
- industry standard hardware, software, tools, licenses and digital devices
- business and client requirements
- project deliverables.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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