



Australian Government

Assessment Requirements for ICTNWK629 Configure and manage storage area networks

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Supersedes and is equivalent to ICTNWK617 Configure and manage a storage area network.

Performance Evidence

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

- configure at least one storage area network (SAN) according to organisational storage needs
- confirm the interconnection of at least two different enterprise devices to a SAN.

In the course of the above, the candidate must:

- operate within the storage capacity of digital enterprises
- apply required organisational policies and procedures.

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:

- functions and features of network protocols, including:
 - common internet file system (CIFS)
 - sever message block (SMB)
 - network file system (NFS)
 - internet small computer system interface (iSCSI)
 - fibre channel (FC)
 - fibre channel over ethernet (FCOE)
- key features and requirements of SANs, including:
 - volume snapshots and clone copies
 - data deduplication
 - flexible volumes

- hardware and software
- backup and restore settings
- logical unit numbers (LUNs)
- shared folders
- management and logical interfaces
- endpoint devices
- key differences and compatibility requirements between SANs, network-attached storage (NAS), and direct-attached storage (DAS) devices
- types of hard drives, including:
 - serial attached SCSI (SAS)
 - serial advanced technology attachment (SATA)
 - solid state disk (SSD)
- network configuration tools and components
- types of SAN topologies, models, cables, and connectors
- industry-recognised strategies for network management, backup, and security
- methodology for the implementation and configuration of SANs
- methodology for the configuration of virtual local area networks (VLANs)
- functions and features of redundant array of independent disks (RAIDs)
- properties of interconnection testing of storage systems and servers
- types of data storage failures and processes for recovering corrupted data
- organisational formats for documentation
- organisational policies and procedures and legislative requirements relating to work tasks.

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 site where storage area networks is configured and managed
- required network infrastructure, including tools, hardware, software and configuration components
- organisational policies and procedures required to demonstrate the performance evidence.

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

Links

Companion Volume Implementation Guide is found on VETNet - -

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