



Australian Government

Assessment Requirements for ICTNWK505 Design, build and test a network server

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.

Performance Evidence

Evidence of the ability to:

- produce a design report for a server (or servers) with complex user and network service requirements
- install and configure the server according to the produced design
- monitor and test the server
- troubleshoot server and network failures
- configure a wide range of server network and security services, including:
 - domain name system (DNS)
 - dynamic host configuration protocol (DHCP)
 - web and proxy mail
 - file transfer protocol (FTP)
 - firewall.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

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

- describe the key features of current network operating systems (NOS)
- identify and describe current server applications compatibility issues and resolution procedures
- discuss network service configuration, including:
 - domain name system (DNS)
 - dynamic host configuration protocol (DHCP)
 - file transfer protocol (FTP)
 - mail

- network time protocol (NTP)
- proxy
- server messages block (SMB)
- web
- describe common network service management, including:
 - start
 - stop
 - restart
 - start on boot
- identify and describe network service security features, including server firewall configuration
- identify and summarise troubleshooting tools and techniques, including network diagnostic utilities
- describe common operating system installation and operation issues, including:
 - installation media:
 - CD
 - DVD
 - universal serial bus (USB)
 - boot disk
 - network and script (automated install)
 - deployment services
 - boot process and diagnosing boot failures
 - operating system rescue environment
 - operating system help and support utilities
 - performance monitoring tools and tuning options
 - compatibility issues and resolution procedures
 - high availability options for servers
 - file and print management
- describe data security and storage measures required on a networked server, including:
 - user authentication and directory services
 - best practice procedures for implementing backup and recovery
 - error and event logging and reporting
 - storage options, including file systems and disk partitioning schemes
- describe the process of managing a project, including:
 - documentation skills required for networks
 - process or task management
 - task scheduling utilities.

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 network industry, and include access to:

- a site where server installation may be conducted
- relevant server specifications
- cabling
- networked (LAN) computers
- server diagnostic software
- switching equipment
- client requirements
- wide area network (WAN) service point of presence
- workstations
- relevant regulatory documentation that affects installation activities.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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