Australian Government

Assessment Requirements for ICTNWK540 Design, build and test network servers

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 6.0.

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:

- produce a design report for at least one server with complex user and network service requirements
- prepare and install a network server on at least one occasion.

In the course of the above, the candidate must:

- document work plans and processes
- 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.

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:

- features of industry standard network operating systems (NOS)
- industry standard server applications compatibility issues and resolution procedures
- industry standard network service configuration, including:
    - domain name system (DNS)
    - dynamic host configuration protocol (DHCP)
    - file transfer protocol (FTP)
    - mail
    - network time protocol (NTP)

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- proxy
- server messages block (SMB)
- web
- industry standard network service management including start, stop, restart and start on boot
- network service security features, including server firewall configuration
- troubleshooting tools and techniques including network diagnostic utilities
- industry standard operating system installation and operation issues, including:
  - installation media
  - 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
- data security and storage measures required on 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.

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 server installation may be conducted
- server specifications
- industry standard hardware
- networked (LAN) computers
- server diagnostic software
- switching equipment
- organisational deliverables relating to building network servers
- wide area network (WAN) service point of presence
- end user device.

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

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