



**Australian Government**

# **Assessment Requirements for ICTNWK529 Install and manage complex ICT networks**

**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:

- design and implement a complex network that involves integrating multiple network services to meet business requirements
- design and implement an appropriate security strategy for a complex network
- monitor and test the performance of aspects of the solution
- provide ongoing management and support of the network.

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 firewall configurations and their application
- summarise internet protocol (IP) addressing and network configuration
- summarise and apply the following aspects of a network:
  - infrastructure
  - load balancing for applications
  - security
  - server operating systems
  - service configuration, including:
    - domain name system (DNS)
    - dynamic host configuration protocol (DHCP)
    - file transfer protocol (FTP)
    - network time protocol (NTP)
    - server messages block (SMB)
  - mail

- proxy
- web
- service management
- identify and describe troubleshooting tools and techniques, including network diagnostic utilities
- outline the purpose of user authentication and directory services
- describe voice over internet protocol (VoIP)
- describe virtual private network (VPN).

## 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:

- network design and business requirements documents
- a complex network or hardware and software required to build a network involving multiple servers, multiple physical locations (or simulation of) and a combination of network services.

Assessors must satisfy NVR/AQTF assessor requirements.

## Links

Companion Volume implementation guides are found in VETNet -

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