



Australian Government

Assessment Requirements for ICTNWK435 Create secure virtual private 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 ICTNWK416 Build security into virtual private networks. Supersedes and is not equivalent to: • ICTSAS422 Scope implementation requirements • ICTWEB423 Ensure dynamic website security. Updated title to better reflect unit scope.

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 network router
- configure client-to-site virtual private network (VPN) access on at least one network router
- configure site-to-site VPN user access on at least one network router.

In the course of the above, the candidate must:

- authenticate VPN user access using one of the following:
 - pre-shared keys
 - digital certificates
- 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:

- key characteristics of a VPN, including:
 - site-to-site access systems
 - client-to-site remote access systems

- network protocols and operating system functionality
- key features and distinguishing differences of network routers
- key methods to configure network components using technical guidelines
- key security threats, including:
 - data interception
 - data corruption
 - data falsification
 - eavesdropping
- key security requirements, authentication tools and techniques to secure a VPN, including:
 - auditing and penetration testing
 - shared keys and digital certificates
 - audit rules and intrusion detection systems
 - asset security monitoring
 - router and switch configuration
 - security and encryption protocols and standards
 - prerequisites and gateways
 - processes to establish security perimeters
 - processes to contain security breaches
 - transmission control protocol or internet protocol (TCP/IP) applications
 - procedures for user authentication
- key differences between different types of networks, including:
 - local area network (LAN)
 - wireless local area network (WLAN)
 - wide area network (WAN)
- organisational security techniques to identify and minimise network vulnerabilities, including:
 - security cryptography
 - screened subnets
 - virus detection software
- 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:

- technical network requirements, including access to different browsers and different devices
- network infrastructure, including servers, tools, hardware and software
- 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>