



Australian Government

ICTNWK435 Create secure virtual private networks

Release: 1

ICTNWK435 Create secure virtual private networks

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.

Application

This unit describes the skills and knowledge required to assess and implement security access measures into virtual private networks (VPNs). It includes configuring a secure network router, testing router functionality, and following workplace procedures to rectify faults.

The unit applies to individuals who may be networkers, technical specialists and security analysts who are responsible for implementing secure network solutions and who use a wide range of information and communications technology (ICT) skills and knowledge to establish secure VPNs.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Networking

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Configure secure VPN	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Select secure network router according to work brief

ELEMENT	PERFORMANCE CRITERIA
	1.3 Source network configuration hardware, software and tools 1.4 Confirm component serviceability 1.5 Set up gateway and connect network router 1.6 Create and apply audit rules for network router and run asset security monitoring
2. Secure site-to-site VPN	2.1 Test network for vulnerabilities according to work brief and organisational policies and procedures 2.2 Establish prerequisites and confirm gateway connection to network router 2.3 Configure internet key exchange (IKE) and site-to-site internet protocol security (IPSec) systems 2.4 Authenticate site-to-site VPN user access
3. Secure client-to-site remote access VPN	3.1 Configure client-to-site VPN remote user access server 3.2 Install and access router management console 3.3 Test remote access server and rectify any faults
4. Finalise creation of secure VPNs	4.1 Develop and securely file documentation on system settings and framework components 4.2 Confirm VPN has been secured to an acceptable quality according to organisational policies and procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Gathers, interprets and analyses current industry rules from a range of sources and locates relevant sources of information
Writing	Prepares workplace documentation in a format appropriate to organisational requirements
Initiative and enterprise	Initiates standard procedures when responding to problems in known or changing contexts
Planning and organising	Uses a combination of formal planning processes to identify threats, risks and vulnerabilities
Self-management	Undertakes security procedures in relation to own work and takes personal responsibility for identifying and managing risks

Skill	Description
Technology	Identifies the purposes, specific functions and key features of specialist systems and tools, and operates them effectively to complete work tasks

Unit Mapping Information

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.

Links

Companion Volume Implementation Guide is found on VETNet - -

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