



Australian Government

Assessment Requirements for ICTNWK562 Configure internet gateways

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 ICTNWK531 Configure an internet gateway. Minor edits to title.

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 two different internet gateways
- connect at least two nodes to a logical internet gateway.

In the course of the above, the candidate must:

- assess network performance requirements
- meet required internet service provider (ISP) security requirements
- report network issues to required personnel within required timeframes
- apply required organisational policies and procedures
- comply with required technical and national guidelines for configuring internet gateways.

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 security threats to ISP networks, including:
 - data interception
 - data corruption
 - data falsification
- industry-recognised internet gateways and installation methods
- functions and features of security plans
- industry-recognised methods to configure network components using required technical and national guidelines

- required operations for configuring network components
- networking techniques to analyse and minimise system vulnerabilities
- methods to conduct ISP network security and speed tests
- hardware, software and tools for internet gateway and node configurations
- key functions and features of internet gateway architecture, including:
 - network architecture
 - domain name server (DNS) resolution
 - bridges
 - node connection
 - logical gateways and desktop operating systems
 - hubs
 - firewalls
 - network gateways and operating systems
 - routers and switches
 - prerequisites and technical requirements
- functions and features of security practices for ISP network protection
- troubleshooting procedures for logical gateway and network router connection
- key security maintenance procedures, including ethical hacking
- 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:

- ISP network and internet gateway
- network infrastructure and vendor specifications, including servers and components
- 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>