



Australian Government

**Assessment Requirements for ICTNWK624
Configure advanced internetwork routing
solutions**

Release: 1

Assessment Requirements for ICTNWK624 Configure advanced internet network routing solutions

Modification History

Release	Comments
Release 1	<p>This version first released with the Information and Communications Technology Training Package Version 8.0.</p> <ul style="list-style-type: none">• Supersedes and is equivalent to ICTNWK603 Plan, configure and test advanced internet network routing solutions.• Supersedes and is not equivalent to ICTNWK605 Design and configure secure integrated wireless systems. <p>Updated title to better reflect unit scope.</p>

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 internet protocol version 4 (IPv4) routing solution in which the work must include one of the following:
 - distance vector routing protocol solution
 - link-state routing protocol solution
- configure at least one internet protocol version 6 (IPv6) routing solution.

In the course of the above, the candidate must:

- produce and securely file documentation of work tasks performed
- 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 types of IPv4 and IPv6 routing protocols and solutions, including:
 - distance vector routing solutions
 - link-state routing protocol solutions
 - hybrid routing solutions
- functions and features relevant to configuring advanced internet network routing solutions, including:

- broadband technologies
- routing tables
- external factors that impact network design
- business component implementation
- implementation and verification plans
- virtual private networks (VPN)
- IPv6-based networks
- IPv4-based networks
- IPv4 and IPv6 redistribution and interoperation processes
- local area networks (LANs)
- wide area networks (WANs)
- routing solutions
- configuration procedures for IPv6-based networks
- methods and technical guidelines required to configure network components
- network testing tools and operations for complex networks
- risk management strategies and practices for complex networks, including:
 - protocols and operational processes
 - operating security technologies
 - formal and structured approaches to network management
- 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 operating systems on different devices
- network infrastructure, including servers, tools, hardware and software
- LAN and WAN systems required to demonstrate the performance evidence
- 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>