



**Australian Government**

# **Assessment Requirements for ICTNWK625 Plan and configure advanced internetwork switching solutions**

**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.<br><br>Supersedes and is equivalent to ICTNWK604 Plan and configure advanced internetwork switching solutions. |

## 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:

- plan and configure at least two different advanced internetwork switching solutions.

In the course of the above, the candidate must:

- configure one private virtual local area network (VLAN)-based solution
- configure one multilayer switch-based solution
- configure one wireless extension with multi-layered (layer 3) switches
- 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:

- functions and features of formal and structured network management, including:
  - integrated and unified enterprise networks
  - wireless standards and certifications
  - external factors on switched enterprise networks
  - maintenance tools and practices
  - types of network topologies
- methods to configure network components using technical guidelines
- functions and features of advanced internetworking switching solutions, including:
  - local area networks (LANs)
  - VLANs

- wide area networks (WANs)
- virtual private networks (VPN)
- implementation and verification plans
- switching and routing technologies
- multilayer switches
- high availability network solutions and switching solutions
- first hop redundancy protocols (FHRPs)
- voice over internet protocol (VoIP)
- wireless extensions
- layer 3 networks
- layer 2 networks
- switch-to-switch connectivity
- video application support solutions
- key risk management strategies and practices for complex networks, including:
  - protocols and operational processes
  - operating security technologies
  - formal and structured approaches to network management
  - internetwork testing procedures
- security features of networks
- 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>