



Australian Government

**Assessment Requirements for ICTNWK508
Install, operate and troubleshoot medium
enterprise switches**

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Performance Evidence

Evidence of the ability to:

- prepare for the installation of an enterprise switch
- install, configure and test network elements to ensure interoperability within the network
- apply network topologies, protocols and security issues
- apply solutions and troubleshoot defined network problems.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- identify and describe switches and their operation
- describe the installation requirements of switches, including:
 - debug commands
 - routing between virtual local area networks (VLANs)
 - spanning tree protocol (STP)
 - switch calling line identification (CLI) commands
 - switch security, including:
 - port deactivation
 - port security
 - secure shell (SSH)
 - advanced switching technologies
 - common network switching issues
- identify and describe the different types of network and related equipment
- outline the types of documentation required when installing switches.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the network industry, and include access to:

- a site where network installation may be conducted
- enterprise switches and operating systems
- equipment specifications
- hardware and software
- organisational guidelines.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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