



**Australian Government**

# **Assessment Requirements for ICTNWK543 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 6.0.

## 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:

- prepare and install at least two medium enterprise switches
- configure and test network elements on at least two occasions.

In the course of the above, the candidate must:

- apply network topologies, protocols and security issues
- apply solutions and troubleshoot defined network problems.

## 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:

- switches and their operation
- industry standard installation requirements of switches, including:
  - debug commands
  - routing between virtual local area networks (VLANs)
  - spanning tree protocol (STP)
  - switch command line interface (CLI) commands
  - switch security, including:
    - port deactivation
    - port security
    - secure shell (SSH)
  - advanced switching technologies
  - common network switching issues
- industry standard network and related equipment.

## 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:

- a site where network installation may be conducted
- enterprise switches and operating systems
- equipment specifications
- hardware and software required to install and operate medium enterprise switches
- end user device
- policies and procedures pertaining to the installation and operation of enterprise switches.

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>