



Australian Government

**Assessment Requirements for ICTTEN513
Install, configure and test a local area
network switch**

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 2.0.

Performance Evidence

Evidence of ability to:

- plan and prepare for the local area network (LAN) switch installation task
- select a LAN switch to meet client business specifications
- install switches without the network losing connectivity or failing
- install and test switch that ensures interoperability within the network
- use a range of switch configurations
- apply solutions to a variety of switch-related problems
- report on status of completed installation
- seek sign-off from customer.

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:

- describe advantages and disadvantages of switches over hubs
- identify and evaluate the impact of pertinent sections of the Australian Computer Society Code of Ethics in relation to network switches
- describe common network cable types and connectors
- summarise common network topologies
- explain differences between standard and intelligent (i.e. configurable) switches, and between switches and hubs
- outline the importance of client documentation prepared when installing networks
- explain how to provide the network with redundant paths for reliability and how routers and switches manage these paths.

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 should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- a site where switch installation can be conducted
- field measurement equipment currently used in industry
- relevant switch specifications, technical requirements for a network, switch, cabling, networked (LAN) computers, workstations, servers and a wide area network (WAN) service point of presence.

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 guides are found in VETNet -

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