Assessment Requirements for ICTTEN525 Install, configure and test local area network switches

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

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:

- plan and prepare for at least two local area network (LAN) switch installations.

In the course of the above, the candidate must:

- select LAN switches to meet client business specifications
- install switches without the network losing connectivity or failing outside of an agreed change window
- install and test switch that confirms interoperability within the network
- use switch configurations
- report on status of completed installation
- seek sign-off from relevant personnel.

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:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- advantages and disadvantages of LAN switches over hubs
- impact of required sections of the Australian Computer Society Code of Ethics on network switches
- network cable types and connectors
- LAN topologies
- differences between standard and intelligent switches, and between switches and hubs
- importance of client documentation prepared when installing networks
- providing the network with redundant paths for reliability and how routers and switches manage these paths.

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 switch installation can be conducted
- field measurement equipment currently used in industry
- required 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 Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2