Assessment Requirements for ICTTEN423 Install and maintain a wide area network

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 installation of a wide area network (WAN) accessible network
- select and apply WAN link protocols
- configure internet protocol (IP) addressing across WAN
- troubleshoot WAN communication issues
- install WAN access security measures.

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:

- outline enterprise work health and safety (WHS) procedures
- explain IP addressing services and network scaling
- summarise methods of securing network services including access control lists
- explain Open Systems Interconnection (OSI) layered communication model
- outline requirements to provide teleworker network services
- describe correct usage of relevant tools and equipment
- outline WAN link protocols including:
  - frame relay
  - high-level data link control (HDLC)
  - link access procedure, balanced (LAPB)
  - point-to-point protocol (PPP)
- summarise WAN troubleshooting methodologies and analysis and diagnostic tools.

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 installation and maintenance of a WAN may be conducted
- tools, equipment and materials currently used in industry
- relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.

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