Assessment Requirements for ICTTEN207 Install and test internet protocol devices in convergence networks

Assessment Requirements for ICTTEN207 Install and test internet protocol devices in convergence networks generated: 17 December 2024

Date this document was

Assessment Requirements for ICTTEN207 Install and test internet protocol devices in convergence networks

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:

- prepare for installation of internet protocol (IP) device connected to a network
- set up and configure IP device with simple addressing schemes
- test and secure device against security threats
- produce essential installation information
- follow work health and safety (WHS) workplace procedures and practices
- test wireless link.

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 principles of computer networking and identify common types and protocols used
- describe IP-based telecommunications and importance of network configuration including:
  - IP addressing
  - IP devices
- identify and describe the purpose of common hardware and software used in IP communications
- identify and summarise organisational policies and procedures relating to installation and testing of internet protocol devices
- describe common procedures for basic testing and troubleshooting an IP device
- describe procedures for assigning networking protocols
- explain the purpose for internet security and describe common configurations
- describe various basic wireless technologies and their application in communications

- describe environmental factors requiring management on telecommunications equipment
- identify and describe WHS requirements and personal safety issues relating to installation and testing of internet protocol devices
- define open system interconnection (OSI) and explain various levels involved
- identify common types of peripheral devices used in network communications systems
- calculate using the binary system
- describe common computer commands used to verify and manage IP and network performance
- identify common security threats attributed to networks and specify solutions to combat these threats
- identify common wireless technologies used in communications.

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 telecommunications network engineering field of work and include access to:

- a small network with IP devices
- tools, equipment, materials and documentation required for installing and testing IP devices
- 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

Future Skills Organisation