Australian Government

Assessment Requirements for ICTCBL219 Apply safe technical work practices for cabling registration when configuring an ADSL circuit

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 the ability to:

- demonstrate the use of asymmetric digital subscriber line (ADSL) concepts in application and design
- demonstrate fault-finding techniques to locate cabling faults in telecommunications networks
- solve calculations for direct current (DC) and alternating current (AC) electrical problems
- apply digital transmission principles and testing
- demonstrate the use of ADSL test equipment
- comply with all related work health and safety (WHS) requirements and work practices in the alteration of existing client services.

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:

- discuss WHS issues and practices relating to ADSL circuits and working with electricity
- describe typical electrical faults, fault-finding techniques and the type and use of testing equipment, including:
  - multimeter to measure direct current (DC) voltage, current and resistance
  - continuity tester to check continuity wiring
  - testing of open circuits and short circuits
  - ADSL test set
- identify the appropriate tools used in ADSL cabling
- describe the types of cable terminations used for a range of telecommunications cable applications

- outline the following:
  - ADSL circuitry and configurations
  - digital transmission concepts, including installation practices and testing
  - procedures in altering existing services, including sign off
  - the distinction between analog and digital signals.

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 – cabling field of work and include access to:

- special purpose tools, equipment and materials
- a site where altering of existing services for a client may be conducted
- appropriate AC and DC testing equipment
- manufacturer's documentation and equipment
- correct tools and measuring equipment currently used in industry.

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