



Australian Government

Assessment Requirements for ICTTEN303 Locate, identify and rectify recurrent network faults

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:

- discuss faults with clients
- test telecommunications networks to identify faults
- identify and rectify recurrent faults
- conduct and report on a fault-finding task in a telecommunications network for a range of faults
- use systematic and logical fault-finding techniques in telecommunications networks and field testing procedures to particular workplace situations
- comply with all related work health and safety (WHS) requirements and work practices
- notify customer when work has been complete and obtain sign off.

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 application of Ohm's law, impedance and reactance formulas to solve alternating current (AC) electrical problems when diagnosing faults
- summarise behaviour of faulty network elements, including symptoms and impact on network
- clarify interpretation of test results and network element/system specifications
- outline the operation and purpose of testing equipment
- explain the operation of transformers
- provide a summary of telecommunications networks
- describe performance testing and fault-finding techniques of telecommunications networks
- summarise systematic and logical fault-finding

- describe types of power sources used in telecommunications networks.

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:

- sites on which network testing and fault-finding may be conducted
- line transmission, optical and radio measurement equipment currently used in industry
- system documentation, and other site-related documentation necessary to conduct tests and fault-finding investigations.

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.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>