



Australian Government

Assessment Requirements for ICTTEN313 Work on and resolve recurrent network faults

Release: 1

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Modification History

Release	Comments
Release 1	This version released with ICT Information and Communications Technology Training Package Version 5.0.

Performance Evidence

The candidate must demonstrate the ability to perform the tasks outlined in the elements, performance criteria, and foundation skills, and to:

- discuss faults with customers and co-workers
- 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 according to specific workplace situations
- comply with all work health and safety (WHS) and environmental requirements and work practices.

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

Knowledge Evidence

The candidate must demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria, and foundation skills, which includes knowledge about:

- relevant legislation, regulations, codes, standards, enterprise guidelines, formal agreements and contracts that impact on the work activity in particular:
 - WHS requirements and environmental procedures relating to the activity and site conditions
- Ohm's law, impedance and reactance formulas to solve alternating current (AC) electrical problems when diagnosing faults
- behaviour of faulty network elements including symptoms and impact on network
- test results and network element/system specifications
- operation and purpose of testing equipment

- summary of telecommunications networks
- performance testing and fault-finding techniques of telecommunications networks
- systematic and logical fault-finding
- types of power sources used in telecommunications networks
- managing faults on special services (such as police stations, hospitals, customers with heart monitors).

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- site/s on which network testing and fault-finding can 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 available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>