



Australian Government

Assessment Requirements for ICTTEN607 Analyse and organise repair of highly complex telecommunications 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:

- diagnose network faults using established methodical strategies without undue disruption to other services
- recommend fault rectification plan to the network operations centre (NOC)
- instruct on-site repairers
- facilitate replacement or repair of faulty equipment with appropriate advice from vendors and manufacturers
- facilitate final testing of rectified faults to ensure required performance
- prepare report including deficiencies, analysis and recommendations.

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:

- summarise fault escalation procedures
- explain fault-finding techniques and use of test equipment
- outline fault types and rectification
- outline the operation of integrated packet optical transport networks (P-OTNs)
- explain the use of International Telecommunication Union (ITU) ITU-T G.709 standard
- explain network protocols
- outline safety requirements and standards
- explain service agreements
- explain synchronous digital hierarchy (SDH)
- summarise transmission control protocol (TCP)-internet protocol (IP)
- summarise the following types of networks and equipment:
 - access

- broadband deployment
- cabling
- customer premises' equipment (CPE)
- IP networks for enterprise and customer systems and installations
- local area networks (LAN)
- telephony
- wide area networks (WAN).

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 highly complex network faults may be demonstrated and analysed without jeopardising live traffic
- equipment currently used in industry
- design specifications and manufacturer's 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>