



Australian Government

Assessment Requirements for ICTTEN618 Analyse and organise repair of highly complex networks

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 7.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- analyse and organise the repair of at least two highly complex networks.

In the course of the above, the candidate must:

- diagnose at least three 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 advice from relevant personnel
- facilitate final testing of rectified faults to confirm required performance
- prepare report including deficiencies, analysis and recommendations.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- fault escalation procedures
- fault-finding techniques and use of test equipment
- fault types and rectification
- operation of integrated packet optical transport networks (P-OTNs)
- use of International Telecommunication Union (ITU) ITU-T G.709 standard
- network protocols
- safety requirements and standards
- service agreements

- synchronous digital hierarchy (SDH)
- transmission control protocol (TCP)-internet protocol (IP)
- 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)
 - workplace documentation including reports.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes 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 Guide is found on VETNet -

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