



Australian Government

Assessment Requirements for ICTTEN412 Undertake routine maintenance of the telecommunications network

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:

- plan a detailed routine maintenance schedule
- conduct and record routine maintenance activities procedures and techniques
- test network equipment and analyse results
- carry out works in compliance with site risk controls, work health and safety (WHS), environmental, quality and communication requirements.

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:

- describe computer systems required to facilitate a routine maintenance check of a telecommunications network
- explain the operation of network alarm systems
- describe the function and purpose of network management systems
- outline key components of a telecommunications network equipment and architecture, and their function including:
 - switching
 - mobile communications
 - satellite
 - transmission
 - antennas
 - radio frequency
 - basic telephony

- identify and specify telecommunications test equipment, test configurations, and analysis of results for a range of telecommunications network problems
- describe WHS risks associated with routine maintenance tasks
- explain telecommunications wiring practices
- explain the use of a scheduler
- describe the importance of customer relations when dealing with clients, in particular, obligations and expectations of the technician
- describe the operation, application and characteristics of digital logic integrated circuits and installation packages
- outline the importance of enterprise policies and procedures for:
 - escalation of issues
 - enterprise information systems

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 routine maintenance may be conducted
- maintenance tools and test instruments currently used in industry
- relevant regulatory and equipment documentation impacting maintenance activities.

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>