



**Australian Government**

**Assessment Requirements for ICTTEN307  
Repair and replace telecommunications  
network hardware**

**Release: 1**

# Assessment Requirements for ICTTEN307 Repair and replace telecommunications network hardware

## 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:

- rectify fault as instructed by Network Operations Centre (NOC), following work health and safety (WHS) requirements and anti-static precautions
- replace telecommunications hardware within service assurance guidelines according to enterprise procedures
- update fault records database according to enterprise procedures
- liaise with appropriate personnel in the NOC for information and reporting purposes.

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:

- explain application of direct current (DC) and alternating current (AC) electrical principles
- describe static electricity and its importance in testing and working with telecommunications equipment
- describe behaviour of faulty network elements including symptoms and impact on network
- interpret test results and network element or system specifications
- describe the operation and purpose of testing equipment
- summarise common telecommunications hardware and network structures
- outline performance testing and fault-finding techniques of telecommunications networks
- explain systematic and logical fault-finding
- list types of power sources used in telecommunications networks
- select and describe appropriate test equipment used to undertake fault finding procedures.

## 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 suitable site to replace telecommunications network hardware
- a range of hardware currently used in industry
- a range of general and test equipment required for testing telecommunications network hardware.

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>