



Australian Government

**Assessment Requirements for ICTTEN309
Provide infrastructure for
telecommunications network customer
equipment**

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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:

- identify potential earthing locations, cable routes, cables support systems, data cabinets, telecommunication enclosures and distributors
- construct metal superstructure and racks
- install protective earth installations
- organise AC mains power infrastructure
- install uninterrupted power supply (UPS) back up power
- notify customer of works progress.

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 cabling types, connectors and cabling structures used in telecommunications networks
- identify and describe common customer telecommunications applications and related equipment
- identify connections to carrier infrastructure or equipment
- identify and summarise current legislation relating to installation of telecommunications equipment and connection to carrier services
- list tools and test equipment required for an infrastructure installation
- describe the process of a site survey, and the data that should be recorded
- describe environmental impacts, including options for information and communications technology (ICT) installations
- discuss network topologies, interface and interconnect solutions

- identify work health and safety (WHS) requirements for managing hazards on the worksite including:
 - confined spaces
 - electrical safety
 - working at heights
 - lifting
 - materials handling
 - physical hazards
- summarise network and transmission customer equipment likely to be encountered
- describe common backup UPS systems and AC mains power requirements and electrical safety for telecommunications networks
- discuss types of warranty information for equipment supplies and contractor work guarantees
- describe the importance of correctly labelling an installation.

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 installation of supporting infrastructure may be conducted, or a simulated environment
- plant, tools and equipment currently used in industry
- relevant regulatory and equipment documentation that impact work 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.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>