



Australian Government

**Assessment Requirements for ICTTEN503
Design an electronic system for a
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:

- evaluate system need for additional electronic equipment and design options
- analyse network and design systems
- assess system compatibility.

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:

- review electrical and optical properties of telecommunications systems
- outline integration, compatibility and interoperability of equipment
- summarise legislation and licensing relevant to installation of telecommunications equipment including spectrum allocation
- define power requirements and electrical safety issues associated with electronic system design
- outline transmission type and signals that may be encountered.

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:

- telecommunications network where additional equipment design may be conducted
- relevant regulatory and equipment documentation that impacts electronic system design.

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>