



Australian Government

**Assessment Requirements for ICTCBL242
Install functional and protective
telecommunications earthing system**

Release: 1

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Modification History

Release	Comments
Release 1	This version released with ICT Information and Communications Technology Training Package Version 5.0.

Performance Evidence

The candidate must demonstrate the ability to perform the tasks outlined in the elements, performance criteria, and foundation skills, and to:

- evaluate earthing needs for cable systems on customer premises
- determine potential earthing locations
- comply with all related work health and safety (WHS) and environmental requirements and work practices
- determine earth route and support system
- install earth to a backmount, rack or enclosure
- manage remote power feed services.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

The candidate must demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria, and foundation skills, which includes knowledge about:

- legislation, regulations, codes, standards, rules, guidance notes and other formal agreements that impact on work, in particular:
 - wiring rules
 - mandatory and voluntary technical standards
 - Australian Communications and Media Authority (ACMA) competency requirements for Telecommunications Cabling Provider Rules
 - national and state/territory WHS requirements
 - workplace and worksite requirements
- specific WHS and environmental requirements relating to the activity and site conditions, including typical safety issues and challenges that occur on site
- features and operating requirements of test equipment

- information required to operate equipment according to a test specification
- types of location in which installations may be required
- manufacturer requirements for safe operation of equipment
- test methods and performance requirements
- purpose, construction, and characteristics of types of cable used in performance evidence
- cable screening types
- recognition of colour codes
- electrical earthing applications including electrical bonding and equipotential bonding
- earth systems with functionality including elimination of interference from electromagnetic, radio frequency (RF) and power sources, and reduction of interference from electromagnetic RF and power sources.
- switching systems earthing requirements
- basic telephony including operation.

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- special purpose tools, equipment and materials
- a relevant telecommunications earthing system
- cable plans and records.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Links

Companion Volume Implementation Guides are available from VETNet -

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