



**Australian Government**

# **Assessment Requirements for ICTCBL204**

## **Install functional and protective telecommunications earthing system**

**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 the ability to:

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

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:

- identify the current Australian Communications and Media Authority (ACMA) Competency Requirements for Telecommunications Cabling Provider Rules, legislation, codes of practice and other formal agreements that impact on the work activity
- describe the features and operating requirements of test equipment
- describe the information required to operate equipment according to a test specification
- describe the types of location in which installations may be required
- identify manufacturer's requirements for safe operation of equipment
- identify the applicable Commonwealth, state and territory legislation, regulations, standards, codes of practice and industry standards and guidance notes relevant to WHS, own workplace, work role and responsibilities, the activity and site conditions
- outline the differences between the Commonwealth, state and territory WHS legislation and regulations

- describe test methods and performance requirements
- identify typical issues and challenges that occur on site
- describe electrical earthing applications including electrical bonding and equipotential bonding
- define earth systems with functionality including elimination of interference from electromagnetic, radio frequency (RF) and power sources, and reduce interference from electromagnetic RF and power sources.

## 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 – cabling field of work and include access to:

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

Note: Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Refer to the ICT Implementation Guide Companion Volume for recommended assessor details.

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>