



Australian Government

ICTCBL215 Joint metallic conductor cable in access 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.

Application

This unit describes skills and knowledge required to joint metallic conductor cable on the service provider side of the network boundary in communications applications including digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LAN), wide area networks (WAN) and multimedia.

It applies to individuals working in technical roles who joint metallic conductor cable for indoor and outdoor installations on new installations and cable upgrades, and maintain infrastructure in domestic, commercial and industrial situations for service providers and asset owners.

All client cabling work in the telecommunications, fire, security and data industries must be performed by a registered cabler. All cablers are required to register with an Australian Communications and Media (ACMA) accredited registrar.

Unit Sector

Telecommunications – cabling

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for jointing metallic conductor cable for access network	1.1 Prepare for given work according to relevant legislation, codes, regulations and standards 1.2 Arrange access to site according to required procedure 1.3 Inform appropriate personnel of existing and potential hazards on worksite 1.4 Review site plans and documentation

ELEMENT	PERFORMANCE CRITERIA
	1.5 Select cable type and appropriate connectors for cable joint 1.6 Set up tools and equipment, and materials required for safe work practice 1.7 Obtain information on location of other services from relevant authorities
2. Joint metallic conductor cable for access network	2.1 Joint metallic cable following work health and safety (WHS) and environmental requirements 2.2 Perform relevant cable tests to ensure joint complies with site specifications, manufacturer's specifications, and relevant legislation, codes, regulations and standards 2.3 Rectify any cable faults 2.4 Record cable tests and any modifications required 2.5 Label and tag cable joint according to enterprise guidelines and industry practice
3. Protect and alarm cable	3.1 Pressurise cable and check for any leakage 3.2 Reconnect alarms, if applicable, according to enterprise guidelines 3.3 Remove waste and debris from worksite and dispose of according to environmental requirements to maintain safe worksite conditions
4. Complete records and clean up site	4.1 Complete required records including alterations and notify client 4.2 Reinstate site according to client and company requirements 4.3 Present all records to appropriate personnel and obtain sign off

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.4, 1.7	Interprets information from technical sources to identify relevant and key information
Writing	1.3, 2.4, 2.5, 4.1	Documents outcomes and changes to records using industry relevant terminology
Numeracy	3.1	Takes measurements and interprets results

Navigate the world of work	1.1-1.3, 1.6, 1.7, 2.1, 2.2, 3.2, 3.3, 4.2	Takes personal responsibility for adherence to legal, regulatory and organisational requirements relevant to own work context
Interact with others	1.2, 1.3, 1.7, 4.1, 4.3	Identifies and follows accepted communication practices and protocols when liaising with clients and internal and external personnel on technical and operational matters
Get the work done	1.1-1.3, 1.5, 1.6, 2.1-2.3, 3.1, 3.3, 4.2	- Determines job sequence and works logically and systematically to undertake clearly defined tasks - Analyses task requirements to decide on appropriate equipment and practices - Implements actions as per plan, making slight adjustments if necessary, and addressing some unexpected issues - Automatically implements standard procedures for routine decisions in response to familiar problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL215 Joint metallic conductor cable in access network	ICTCBL2135A Joint metallic conductor cable in access network	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTCBL215 Joint metallic conductor cable in access network

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Performance Evidence

Evidence of the ability to:

- joint cable with appropriate connectors and according to specifications
- perform relevant cable tests to comply with site specifications and industry standards
- rectify any cable faults
- apply work health and safety (WHS) requirements and work practices associated with the jointing of metallic cable, including documentation.

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 Australian Communications and Media Authority (ACMA) competency requirements for Telecommunications Cabling Provider Rules
- describe the features and operating requirements of test equipment
- describe the information required to operate equipment according to a test specification
- identify legislation, codes of practice and other formal agreements that impact on the work activity
- identify the manufacturer's requirements for safe operation of equipment
- discuss safety precautions when working with cables
- identify specific WHS requirements relating to the activity and site conditions
- describe test methods and performance requirements
- identify typical issues and challenges that occur on site.

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 must be typical of those experienced in the telecommunications – cabling field of work and include access to:

- sites where jointing metallic conductor cable may be performed
- cable testing equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on cable jointing activities.

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

Links

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