



Australian Government

ICTCBL254 Joint metallic conductor cable in access network

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.

Application

This unit describes the 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 (LANs), wide area networks (WANs) 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.

Licensing, legislative, regulatory and certification requirements apply to telecommunications systems. All customer 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, regulations, codes, and standards 1.2 Arrange access to site according to required procedure 1.3 Inform appropriate personnel of existing and potential worksite hazards 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, equipment and materials required for safe work practice 1.7 Obtain information about 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 Ensure joint is sealed to industry specifications 2.3 Perform relevant cable tests to ensure joint complies with site specifications, manufacturer specifications, and relevant legislation, regulations, codes and standards 2.4 Rectify cable faults 2.5 Record cable tests and required modifications 2.6 Label and tag cable joint according to enterprise guidelines and industry practice
3. Protect and alarm cable	3.1 Pressurise cable and check for leakage 3.2 Reconnect alarms, as required, 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 customer 4.2 Clean-up and reinstate site according to customer and company requirements 4.3 Present all records to appropriate personnel and obtain sign-off

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance, but not explicit in the performance criteria.

Skill	Description
Reading	Interprets information from technical sources to identify relevant and key information
Writing	Documents outcomes and changes to records using industry relevant terminology

Skill	Description
Numeracy	• Takes measurements and interprets results
Navigate the world of work	• Takes personal responsibility for adherence to legal, regulatory and enterprise requirements relevant to own work context
Interact with others	• 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	• 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

ICTCBL254 Joint metallic conductor cable in access network supersedes and is equivalent to ICTCBL215 Joint metallic conductor cable in access network.

Links

Companion Volume Implementation Guides are available from VETNet -

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

Assessment Requirements for ICTCBL254 Joint metallic conductor cable in access network

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Performance Evidence

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

- joint cable with appropriate connectors and according to specifications
- 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

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

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:

- site/s where jointing metallic conductor cable can 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. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Links

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