



Australian Government

ICTCBL203 Terminate metallic conductor customer cable

Release: 1

ICTCBL203 Terminate metallic conductor customer cable

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 the skills and knowledge required to terminate metallic conductor cable or join cable in a terminating block for a new cable installation or upgrade of cable capacity for an existing network or subsystem, or cabling infrastructure for convergence to next generation networks (NGN).

It applies to individuals who work in technical roles carrying out indoor and outdoor, domestic, commercial or industrial installations for all communications applications, digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LAN), wide area networks (WAN) and multimedia.

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 Authority (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 cable termination	1.1 Arrange access according to customer and individual worksite requirements 1.2 Prepare for cable terminating work within regulatory environment, cabling environment, cable type, cable identification, termination systems, earthing and protection, records and relevant legislation, codes, regulations and standards 1.3 Select correct termination for installation according to strategies to

ELEMENT	PERFORMANCE CRITERIA
	manage infrastructure and relevant legislation, codes, regulations and standards 1.4 Notify appropriate personnel of identified safety hazards at cabling worksite 1.5 Identify remote power feeding services that operate at above telecommunications network voltage (TNV) inside customer premises, and risks posed by contact with remote power feed 1.6 Remove all contaminants from worksite that may adversely affect termination and prepare worksite to ensure adequate visibility to minimise errors and reduce eye strain 1.7 Design cable and block location within frame with capacity for expansion where possible 1.8 Segregate incoming and outgoing cables for ease of access and to minimise overlaying and backtracking of cable
2. Terminate cable	2.1 Remove cable sheath to allow for conductor length and installation requirements 2.2 Fan out cable pair groups to manufacturer's coding system to ensure correct terminating sequence and unique identification where appropriate 2.3 Install over-voltage protection devices to all cables with metallic component where required 2.4 Install terminating modules to frame according to manufacturer's specifications 2.5 Fan cable pairs neatly to termination equipment to facilitate accurate termination 2.6 Terminate cable following work health and safety (WHS) and environmental requirements to manufacturer's specifications using correct tool 2.7 Earth cable shield to manufacturer's specifications and industry standards
3. Test termination	3.1 Conduct visual inspection to confirm that termination colour code sequence has been followed 3.2 Test termination to satisfy performance specifications and record results if required
4. Complete records and clean up site	4.1 Label cable pairs clearly to provide an accurate identification according to manufacturer, industry and customer standards 4.2 Update records and plans with cabling details to provide accurate record according to industry codes of practice and current Australian

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	standards 4.3 Complete telecommunications cabling advice (TCA) forms and provide to customer 4.4 Remove installation waste and debris from worksite and dispose of according to environmental requirements to maintain safe worksite conditions

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	1.2, 3.1	Interprets textual information from relevant sources to identify relevant and key information
Writing	1.4, 3.2, 4.1-4.3	Uses clear, specific and industry related terminology to complete workplace documentation
Numeracy	3.2	Takes readings and measurements and interprets results
Navigate the world of work	1.6, 2.6, 2.7, 4.4	Complies with explicit policies, procedures and legislative requirements relevant to own role
Interact with others	1.4, 4.3	Identifies and follows accepted communication practices and protocols when liaising with customers, colleagues or supervisors
Get the work done	1.3, 1.5, 1.7, 1.8, 2.1-2.5	- Determines job sequence and works logically and systematically to undertake clearly defined tasks - Analyses task requirements to decide on appropriate equipment and practices

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL203 Terminate metallic	ICTCBL2008A Terminate metallic	Updated to meet Standards for	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
conductor customer cable	conductor customer cable	Training Packages Performance Criteria clarified	

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 ICTCBL203 Terminate metallic conductor customer cable

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Performance Evidence

Evidence of the ability to:

- plan and prepare for cable termination activity
- terminate systems at both distributor and outlet locations
- terminate one jumperable distributor (campus distributor or building distributor) with a capacity of 100 pair or greater and one non-jumperable distributor (local distributor) and a patch panel
- terminate at least one 50 pair, one 4 pair ethernet unshielded twisted pair (UTP) data cable and one ethernet shielded twisted pair (STP) data cable, including accurate completion of installation records, drawing alterations and compliance forms
- use correct methods to terminate a range of cables
- conduct and interpret cable test results on a minimum of three different lead-in faults
- interpret and apply relevant legislation, codes, regulations and standards
- update records and plans to show cable locations
- comply with all related workplace 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:

- describe the features and operating requirements of testing
- explain how to operate termination tools to manufacturer's guidelines
- outline legislation, codes of practice and other formal agreements that impact on the work activity
- describe how to install and maintain cabling products to manufacturer's guidelines
- discuss specific WHS requirements relating to the activity and site conditions
- explain termination methods and performance requirements

- discuss 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 metallic conductor cable may be terminated
- colour codes for visual inspections or wire-mappers for 4 pair cable tests
- relevant regulatory and cabling documentation that impacts on cable terminating activities.

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 -

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