



Australian Government

ICTCBL317 Cut over metallic conductor cable in the access network

Release: 1

ICTCBL317 Cut over metallic conductor cable in the access network

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package version 3.0.

Application

This unit describes the skills and knowledge required to cut over and rearrange new and existing distribution cables in the telecommunications access network.

It applies to linesworkers, jointers or technicians from carriers, contractors or other service providers who work on new or existing copper cables in the access network.

Work functions in the occupational areas where this unit may be used may be subject to regulatory requirements. Refer to the Implementation Guide Companion Volume or the relevant regulator for specific guidance on requirements.

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 cable modification and cutover	1.1 Obtain relevant legislation, codes, regulations, client practices, manufacturer's guidelines and standards for for the job. 1.2 Obtain project plan from appropriate personnel and use plan to scope work for job 1.3 Arrange for access to worksite, according to local government or other authority requirements 1.4 Inspect site to develop a work health and safety (WHS) plan and notify appropriate personnel of identified safety hazards 1.5 Determine cable route and type of cable from project plan, taking

ELEMENT	PERFORMANCE CRITERIA
	into account the location of other services 1.6 Obtain required plant, tools, safety equipment and materials 1.7 Prepare detailed plan of cut over tasks according to project plan, job scope, legislative and other requirements, and obtain necessary approvals 1.8 Notify client and network carrier of proposed cutover activity and proposed disruption to services that may impact on their service level agreements (SLAs) 1.9 Undertake additional preparatory non-jointing work, as required, according to client practices and site conditions
2. Joint and cut over cable	2.1 Prepare cabinet, joint enclosure and jointing chambers for cable handling, entry and sealing requirements 2.2 Joint cable according to jointing sequence, materials, connectors and joint type, location, client practices and manufacturer's guidelines 2.3 Test cable for performance and rectify cutover faults relating to cutover according to location, materials available and client practices, and record test results for future reference 2.4 Seal all joints according to cable type, location, client practices and manufacturer's guidelines
3. Clean up worksite and complete documentation	3.1 Complete reports on cutover installation and design amendments to reflect existing cable layout 3.2 Place and secure cables to supports in jointing chamber or cabinet according to client practices 3.3 Mark up As Built plans for return to client for their records 3.4 Recover obsolete materials and return to appropriate point for disposal 3.5 Restore site according to client practices or approving authority requirements 3.6 Notify appropriate personnel about completion of cutover 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, 1.2, 1.4, 1.5, 1.7, 1.8, 2.3, 2.4, 3.1, 3.3, 3.4	- Interprets plans, specifications and other documentation from various sources - Consolidates information to determine requirements
Writing	1.2, 1.3, 1.7, 1.8, 3.1, 3.3, 3.6	- Documents outcomes and changes to plans using industry relevant terminology and recognised plan symbols - Prepares documentation and correspondence using clear language and correct spelling
Oral Communication	1.2, 1.3, 1.6, 1.7, 1.8, 3.6	Interacts effectively in verbal exchanges using appropriate language, and listening and questioning skills to convey and clarify information
Numeracy	1.4, 1.5, 1.6, 2.3, 2.4	- Makes calculations required for measuring and estimating materials for construction - Performs mathematical calculations to check, interpret and confirm results of system tests
Navigate the world of work	1.1, 1.3, 1.7, 1.9, 2.2, 2.3, 2.4, 3.2, 3.4, 3.5	Complies with policies, procedures and legislative requirements relevant to own role
Interact with others	1.2, 1.3, 1.7, 1.8, 3.1, 3.3, 3.6	Uses appropriate practices and protocols to communicate effectively with colleagues, clients and others
Get the work done	1.1, 1.2, 1.3, 1.5, 1.6, 1.7, 1.8, 1.9, 2.2, 2.3, 2.4, 3.3, 3.6	- Plans, sequences and carries out tasks to meet required outcomes - Analyses task requirements to decide on appropriate equipment and practices - Uses problem solving processes to address less predictable problems, referring to standard procedures to determine solutions

Unit Mapping Information

Code and title Current version	Code and title Previous version	Comments	Equivalence status
ICTCBL317 Cut over metallic conductor cable in the access network	Not applicable	New unit to address industry skill needs.	No 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 ICTCBL317 Cut over metallic conductor cable in the access network

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Performance Evidence

Evidence of the ability to:

- communicate with stakeholders to set up the site for a cabling cutover job
- use project plan to determine cable route and necessary fittings for installation
- use project plan to prepare detailed cut over plan including any anticipated outages that may affect service level agreements (SLAs)
- follow client practices for the placement and sealing of the cables
- separate, label and joint cable units and pairs to client practices
- test cable, rectify faults, record results and action taken
- seal all joints and cabinets according to enterprise agreements
- comply with relevant work health and safety (WHS) requirements
- place and secure cables and mark up As Built plans
- hand over completed job to client.

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 common cabling types, connectors and cabling structures
- outline requirements of legislation, codes of practice and other formal agreements that impact on the work activity
- describe how the manufacturer's jointing and sealing practices can be followed in a safe manner
- explain the process of cutting over a cable for various scenarios
- specify the WHS requirements relating to setting up an outdoor site and accessing underground facilities

- describe the features and operating conditions of test equipment and how the equipment is used to measure cable performance
- identify typical issues and challenges that may cause delays in job completion, and how these could be addressed
- describe the purpose of warranties and SLAs.

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:

- cable systems and jointing equipment required to cut over cable
- cabling infrastructure required for installation
- regulatory and equipment documentation that impacts on work 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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