



Australian Government

ICTCBL326 Cut over metallic conductor cable in the access network

Release: 1

ICTCBL326 Cut over metallic conductor cable in the access network

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 cut over and rearrange new and existing distribution cables in the telecommunications access network.

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

Licensing, legislative, regulatory and certification requirements apply to telecommunications systems. Work functions in the occupational areas where this unit may be used may be subject to regulatory requirements. 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. Refer to the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide 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 cut over	1.1 Obtain project plan from appropriate personnel and use plan to scope work for job 1.2 Arrange for access to worksite, according to local government or other authority requirements 1.3 Inspect site to develop a work health and safety (WHS) plan and

ELEMENT	PERFORMANCE CRITERIA
	notify appropriate personnel of identified safety hazards 1.4 Determine cable route and type of cable from project plan, taking into account the location of other services 1.5 Obtain required plant, tools, safety equipment and materials 1.6 Prepare detailed plan of cut over tasks according to project plan, job scope, legislative and other requirements, and obtain necessary approvals 1.7 Notify customer and network carrier of proposed cut over activity and proposed disruption to services that may impact on their service level agreements (SLAs) 1.8 Undertake additional preparatory non-jointing work, as required, according to customer 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 manufacturer guidelines 2.3 Test cable for performance and rectify cut over faults relating to cut over according to location, materials available and customer practices 2.4 Record test results for future reference 2.5 Seal all joints according to cable type, location, customer practices and manufacturer guidelines
3 Clean-up worksite and complete documentation	3.1 Complete reports on cut over installation and design amendments to reflect existing cable layout and according to enterprise requirements 3.2 Place and secure correctly labelled cables to supports in jointing chamber or cabinet according to customer practices 3.3 Mark-up as-built plans for return to customer for their records 3.4 Recover obsolete materials and return to appropriate point for disposal 3.5 Notify appropriate personnel about completion of cut over 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 plans, specifications and other documentation from various sources • Consolidates information to determine requirements
Writing	• 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	• Interacts effectively in verbal exchanges using appropriate language, and listening and questioning skills to convey and clarify information
Numeracy	• 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	• Complies with policies, procedures and legislative requirements relevant to own role
Interact with others	• Uses appropriate practices and protocols to communicate effectively with colleagues, customers and others
Get the work done	• 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

ICTCBL326 Cut over metallic conductor cable in the access network supersedes and is equivalent to ICTCBL317 Cut over metallic conductor cable in the 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 ICTCBL326 Cut over metallic conductor cable in the 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:

- set up the site for a cabling cut over 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 customer practices for the placement and sealing of cables
- separate, label and joint cable units and pairs according to industry practices
- test cable, rectify faults, record results and take appropriate action
- seal all joints and cabinets according to enterprise agreements
- comply with relevant work health and safety (WHS) and environmental requirements
- place and secure cables and mark-up as-built plans
- handover completed job to customer.

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

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:

- requirements of legislation, regulations, codes, standards and customer practices relevant to work activity, in particular:
 - WHS requirements and environmental requirements relating to setting up an outdoor site and accessing underground facilities
- project plans and other formal agreements that impact on the work activity
- interpretation and methods to mark-up as-built plans

- common cabling types, connectors and cabling structures (including conductor identification/cable colour coding)
- manufacturer jointing and sealing guidelines and practices
- process of cutting over a cable for various scenarios including:
 - aerial lead-in
 - underground lead-in
- features and operating conditions of test equipment and how the equipment is used to measure cable performance
- typical issues and challenges that may cause delays in job completion, and how these could be addressed
- purpose of warranties and SLAs
- mark-up as-built plans .
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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:

- 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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