



Australian Government

ICTCBL313 Modify and cutover cable

Release: 2

ICTCBL313 Modify and cutover cable

Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package Version 5.0.
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 modify an infrastructure to cutover new cables into an existing indoor and outdoor, domestic, commercial or industrial cabling installation including communications applications in telephony, broadband, data, video, radio frequency (RF) equipment, security and computer networks, including local area networks (LAN), wide area networks (WAN) and multimedia.

It applies to field officers, technicians or lineman installers from carriers, contractors or other service providers who upgrade coaxial or optical fibre cables as part of a hybrid fibre coaxial (HFC) network, a broadband access network or a large client private network.

Work functions in the occupational areas where this unit may be used are 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 and standards for given work 1.2 Scope work by obtaining project plan from appropriate personnel

ELEMENT	PERFORMANCE CRITERIA
	and arrange for site access to comply with security arrangements 1.3 Notify appropriate personnel of identified safety hazards at worksite 1.4 Determine cable route and type of cable from project plan, and identify and avoid other services 1.5 Obtain plant, tools and safety equipment and material to perform tasks safely and efficiently 1.6 Prepare implementation plan with cutover tasks based on identified nature of job and seek client approval 1.7 Notify client and network carrier of proposed cutover details and proposed disruption to services 1.8 Undertake additional preparatory non-jointing work, as required, according to enterprise guidelines and site conditions 1.9 Select labour support required according to cutover tasks and available skills 1.10 Select technical equipment for cutover to suit materials being used, cable type and joint enclosure
2. Joint and cutover cable	2.1 Follow work health and safety (WHS) and environmental requirements for given work 2.2 Joint cable according to sequencing plan, materials, joint type, location, and enterprise and manufacturer's guidelines 2.3 Test cable for performance and rectify any faults relating to cutover according to location, materials available and industry practice 2.4 Seal all joints according to cable type, location, and enterprise and manufacturer's guidelines
3. Complete project documentation	3.1 Record test results for future reference, complete reports on cutover installation and design amendments to reflect existing cable layout according to enterprise requirements 3.2 Recover obsolete materials and return to appropriate point for disposal 3.3 Restore site according to requirements of enterprise or approving authority and to client satisfaction 3.4 Notify appropriate personnel completion of cutover 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	- Analyses and consolidates test results and data from a range of sources, against defined criteria and requirements - Reads and interprets plans, specifications and other documentation from a variety of sources and 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 and terminology
Oral Communication	Interacts effectively in verbal exchanges using active listening, questioning and reading of verbal and non-verbal signals to convey and clarify information
Numeracy	- Make calculations appropriate for measuring and estimating materials for construction - Performs mathematical calculations to check, interpret and confirm results of system tests
Navigate the world of work	- Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements - Identifies and acts on issues that contravene relevant policies, procedures and legal requirements
Interact with others	Uses a range of strategies to establish a sense of connection and build rapport with clients and co-workers
Get the work done	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Addresses less predictable problems and initiates standard procedures in response, applying problem solving processes in determining a solution

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL313 Modify and cutover cable (Release 2)	ICTCBL313 Modify and cutover cable (Release 1)	Updates to knowledge evidence. Updates to template to apply consistent format between units.	Equivalent unit

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 ICTCBL313 Modify and cutover cable

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- prepare for cutover
- rearrange cable
- conduct tests to determine success of cutover
- interpret results and rectify faults occurring as a result of cutover
- apply regulations and standards related to the cable rearrangement
- comply with all related health and safety requirements, work practices and service level agreements.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- cabling types, connectors and cabling structures
- legislation, codes of practice and other formal agreements that impact on the work activity
- manufacturer's requirements for safe operation of equipment
- cutover of cable on the client's equipment
- health and safety requirements relating to the activity and site conditions
- test methods and performance requirements

- features and operating requirements of test equipment
- typical issues and challenges that occur on the worksite
- purpose of warranties and service level agreements (SLA).

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- systems and equipment involving cutover
- installation equipment currently used in industry
- relevant 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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