



Australian Government

ICTCBL240 Place and secure customer cable

Release: 1

ICTCBL240 Place and secure customer cable

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 install customer cable infrastructure. It involves selecting cable route, setting up cable dispensers, and placing and securing cable.

It applies to individuals who work in technical roles and who may be required to do new installations or to upgrade existing networks in domestic, commercial and industrial premises. Communications applications include digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LANs), wide area networks (WANs) and multimedia.

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 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 for task and identify cable route	1.1 Arrange access to site according to customer instructions, required procedures and site security arrangements 1.2 Notify appropriate personnel of identified safety hazards at cabling worksite 1.3 Plan cable route, identifying and avoiding other services and remote power feeding services operating at above telecommunications network voltage (TNV) on site in commercial buildings 1.4 Select cable route to maintain required clearances and

ELEMENT	PERFORMANCE CRITERIA
	segregations according to cable plan and relevant industry standards 1.5 Confirm cable route and requirements with customer 1.6 Select tools, equipment and cables for installation of support system from work specifications and schedules
2. Set-up cable dispensers	2.1 Determine feeder locations to minimise wastage of cable and efficiency 2.2 Set-up feeders in locations that provide ease of access during hauling of cable 2.3 Secure feeder locations to minimise safety risks during installation 2.4 Label hauling end of cable with unique identifier prior to placement
3. Install cable	3.1 Haul and place cable in safe manner within clearances required by industry standards, and manufacturer and work specifications 3.2 Place cable in neat, orderly and methodical manner, allowing sufficient excess at cable ends to facilitate termination 3.3 Inspect cable to maintain separations according to regulations 3.4 Install barriers to achieve separations where sufficient spatial separation cannot be met with other services 3.5 Install and trim, securing anchors promptly to restrain cable movement according to manufacturer specifications
4. Complete cable installation	4.1 Update records and cable plans promptly and accurately 4.2 Store records and plans according to customer and enterprise requirements 4.3 Remove installation waste and debris from worksite and dispose of according to environmental requirements to maintain safe worksite conditions

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 textual information from relevant sources to identify relevant and key information

	• Reads and interprets plans to help to determine cable layout
Writing	• Uses clear, specific and industry related terminology to complete workplace documentation
Oral Communication	• Provides information using appropriate language for the environment and purpose • Uses listening and questioning techniques to confirm understanding
Numeracy	• Takes readings and measurements and interprets results
Navigate the world of work	• Complies with explicit policies, procedures and legislative requirements relevant to own role
Interact with others	• Identifies and follows accepted communication practices and protocols when liaising with 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

Unit Mapping Information

ICTCBL240 Place and secure customer cable supersedes and is equivalent to ICTCBL202 Place and secure customer cable.

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 ICTCBL240 Place and secure customer cable

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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:

- comply with all related work health and safety (WHS) requirements and work practices
- plan cable placement and discuss the installation requirements with appropriate personnel
- organise tools, equipment and materials for cable installation according to specifications
- set up cable dispensers for internal or external premises structures or aerial and underground cabling between premises
- haul and install cables on support structures and building faces for both internal and external locations, applying relevant regulations and standards
- install securing products in accordance with manufacturer specifications and industry standards
- complete records and relevant statutory forms.

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 elements, performance criteria, and foundation skills, which includes knowledge about:

- legislation, regulations, codes, standards, rules and other formal agreements that impact on cable installation, in particular:
 - wiring rules
 - mandatory and voluntary technical standards
- specific WHS and environmental requirements relating to cable installation and site conditions, including typical safety issues and challenges that occur on cable installation sites
- construction of cabling in commercial buildings

- cable and services segregation clearances to ensure cable route complies with legislation and industry codes of practice, manufacturer specifications, and enterprise requirements
- features and operating requirements of equipment required to place and secure cable
- information required to operate appropriate equipment according to specifications
- installation methods and performance requirements
- manufacturer requirements for safe operation of equipment
- common methods of hauling cable and typical damage that can occur to cable when it is hauled incorrectly
- purpose, construction, and characteristics of types of cable used in performance evidence
- cable screening types
- recognition of colour codes
- switching systems, including customer switching services, system distribution frames/test point frames, power failures and line interface requirements
- basic telephony, including operation.

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 placing and securing customer cable can be conducted
- equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on cable installation activities.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. 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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