



Australian Government

ICTCBL201 Install customer cable support systems

Release: 1

ICTCBL201 Install customer cable support systems

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 install support systems for cable infrastructure for new installations or upgrades, or maintain existing networks in domestic, commercial and industrial installations.

It applies to individuals who work in technical roles planning cable routes and selecting and installing support structures for communications applications including 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 support installation	1.1 Arrange access to site according to customer requirements, required procedures, site security arrangements and relevant legislation, codes, regulations and standards 1.2 Confirm site capacities for storage and location of cable feeders or establish alternative methods 1.3 Determine customer specifications, and manufacturer and enterprise requirements for cable support 1.4 Notify appropriate personnel of identified safety hazards at

ELEMENT	PERFORMANCE CRITERIA
	cabling worksite 1.5 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 1.6 Select tools and materials for installation of support system from work specifications and schedules
2. Determine cable routes	2.1 Review relevant plans and verify cable locations 2.2 Select cable routes appropriate to location of building services, providing access to all outlets and enabling cable to be supported to outlet point 2.3 Plan safe and efficient installation by accurate identification of structural building requirements and identified site constraints 2.4 Identify cable and services segregation clearances to ensure cable route complies with manufacturer, enterprise, legislative and industry codes of practice
3. Determine support method	3.1 Select appropriate support system for planned cable route and identified site constraints 3.2 Prepare support system for capability to meet planned concentration of cable in any location to facilitate ready access for maintenance and allow for future expansion
4. Mark out and install fixings and support structure	4.1 Mark out and install fixings and structures securely in safe manner to manufacturer's specifications, ensuring cable weight can be supported in all operating conditions 4.2 Align support structure correctly to enable cable to be installed evenly, in order and without damage 4.3 Install protective earthing to industry standards 4.4 Conduct work with minimal disruption to ongoing customer activity
5. Complete support installation	5.1 Check and adjust installed supports to ensure cable will not be exposed to damage during installation and operation 5.2 Remove installation waste and debris from worksite and dispose of according to environmental requirements to maintain safe worksite conditions 5.3 Complete documentation

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, 2.1, 2.4	Interprets textual information from relevant sources to identify relevant and key information
Writing	1.4, 5.3	Uses clear, specific and industry-related terminology to complete workplace documentation
Oral Communication	1.4	Uses clear language and concepts, and tone and pace appropriate for the audience and purpose
Numeracy	1.2, 1.3, 1.5	Takes readings and measurements and interprets results
Navigate the world of work	1.1, 1.4, 2.3, 2.4, 4.1, 4.3, 5.2	Complies with explicit policies, procedures and legislative requirements relevant to own role
Interact with others	1.1, 1.4	Identifies and follows accepted communication practices and protocols when liaising with internal and external personnel on technical and operational matters
Get the work done	1.1-1.6, 2.2, 3.1, 3.2, 4.1-4.4, 5.1, 5.2	- Determines job sequence and works logically and systematically to undertake clearly defined tasks - Analyses task requirements to decide on appropriate equipment and practices - Selects and uses appropriate tools and equipment to perform tasks

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL201 Install customer cable support systems	ICTCBL2005B Install customer cable support systems	Updated to meet Standards for Training Packages	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 ICTCBL201 Install customer cable support systems

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Performance Evidence

Evidence of the ability to:

- plan a cable route and cable support system
- interpret plans and schematic drawings to verify cable layout
- install three different support structures:
 - catenary wire
 - ducts and/or trays
 - frame back-mounts
- complete cable support installation, applying relevant regulations, standards and work practices
- comply with all related work health and safety (WHS) requirements.

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:

- summarise building construction methods of commercial buildings as they relate to routing cables
- describe features and operating requirements of cable installation equipment
- identify other services that may impact on cable installations
- describe cable installation support methods and their performance features
- outline legislation, codes of practice and other formal agreements that impact on the work activity
- discuss typical safety issues and challenges that occur on a commercial installation 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 customer cable support systems may be installed
- equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on cable installation 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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