



Australian Government

ICTCBL302 Install and terminate optical fibre cable on customer premises

Release: 1

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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 and test optical fibre cable on a customer's premises for communications applications using a range of terminations that may include direct termination, fusion splicing and mechanical splicing.

It applies to technical staff who place, secure and terminate optical fibre cable in new installations and upgrades or maintain existing networks in domestic, commercial and industrial installations. Communications applications include 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 for installation of optical fibre cable	1.1 Prepare for given work according to relevant legislation, codes, regulations and standards 1.2 Arrange access to site according to required procedure 1.3 Inform appropriate personnel of identified hazards on worksite 1.4 Organise tools, cabling products, equipment and materials for

ELEMENT	PERFORMANCE CRITERIA
	given work 1.5 Match optical fibre cable type and connectors to installation environment and customer requirements 1.6 Check proposed route and bend ratios to meet manufacturer's specifications and industry standards 1.7 Test cable on drum for optical continuity if required
2 Install, terminate and test optical fibre cable	2.1 Install cable following work health and safety (WHS) and environmental requirements, and complying with manufacturer's specifications and industry standards 2.2 Join cable and perform type of termination specified in plan using safe work practices and according to manufacturer's specifications 2.3 Test joint for transmission loss and strength and re-terminate joint if transmission loss exceeds manufacturer's specifications 2.4 Record all measurements
3 Remove fibre hazards from work area	3.1 Clean work area thoroughly to minimise risk of injury from loose glass fibre 3.2 Dispose of waste safely according to relevant environmental requirements 3.3 Restore worksite to customer's satisfaction
4 Document installation	4.1 Update plans and records with details of installation and test results 4.2 Notify customer of work completion 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	1.5, 1.6, 2.2, 2.3, 4.1, 4.2	Recognises the structures and distinguishing features of a range of familiar text types
Writing	1.2, 2.4, 4.1	Chooses appropriate text type to communicate relevant information and/or ideas effectively

Oral Communication	1.2, 1.3	Demonstrates awareness of choices in register, especially in situations that are familiar
Numeracy	1.6, 2.3, 2.4, 4.1	Interprets and comprehends whole numbers and familiar or routine fractions, decimals and percentages
Navigate the world of work	1.1-1.3, 2.1, 2.2, 3.2	Takes personal responsibility for adherence to legal and regulatory responsibilities relevant to own work context, and draws attention to any issues that may affect self or others
Get the work done	1.1, 1.2, 1.4-1.7, 2.1-2.3, 3.1, 3.3	- Implements actions as per plan, making slight adjustments if necessary, and addressing some unexpected issues - Automatically implements standard procedures for routine decisions in response to familiar problems - Understands when to take responsibility and when to notify others

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL302 Install and terminate optical fibre cable on customer premises	ICTCBL3010B Install and terminate optical fibre cable on customer premises	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>