



Australian Government

ICTCBL308 Install underground cable

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 underground cable for all communications applications in access networks or client premises.

It applies to technical staff who install cable for new and upgrades of telecommunications cabling infrastructure for communications applications including broadcasting or reception (digital video broadcasting – terrestrial [DVB-T], digital video broadcasting – satellite [DVB-S], long term evolution [LTE]), closed-circuit television (CCTV), digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LAN), wide area networks (WAN), fibre optic networks and multimedia.

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 underground cable hauling	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 Verify cable installation requirements from plan and recognise constraints 1.4 Inform appropriate personnel of existing and potential hazards on

ELEMENT	PERFORMANCE CRITERIA
	worksite 1.5 Obtain information on location of other services from relevant authorities 1.6 Select suitable tools and equipment and protective equipment to meet required industry standards 1.7 Erect barriers according to safety requirements 1.8 Set up cable installation equipment according to manufacturer's requirements and enterprise guidelines 1.9 Clean debris and obstructions from conduit using suitable safe methods 1.10 Seal cable ends to exclude ingress of foreign matter
2 Haul underground cable	2.1 Run hauling feeder through conduit to enable cable hauling following work health and safety (WHS) and environmental requirements 2.2 Attach cable to hauling feeder according to manufacturer's specifications 2.3 Employ cable slippers or rollers to ensure no sheath damage when hauling into and out of enclosures 2.4 Lubricate cable and haul evenly at correct tension to reduce risk of cable damage 2.5 Maintain sufficient cable length allowance for jointing
3 Seal and secure cable and complete all documentation	3.1 Tag all cables to enable future identification 3.2 Seal cable ends to prevent ingress of foreign material 3.3 Place cable on supports in enclosures to reduce damage to conductors and enable ease of access for maintenance 3.4 Fit over voltage protection devices to all cables with metallic component where required 3.5 Complete reports on installation and design amendments accurately and file promptly according to client requirements 3.6 Reinstate site to identified requirements if required 3.7 Notify client 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	1.1, 1.3, 1.5, 1.8, 2.2	Interprets textual information from plans, specifications, standards and regulations to identify relevant and key information
Writing	1.4, 1.5, 3.1, 3.5	- 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	1.4, 1.5, 3.5, 3.7	- Uses collaborative and inclusive techniques, including active listening and questioning, to convey and clarify information and to confirm understanding - Clearly explains detailed information using language, tone and pace appropriate to the audience
Numeracy	1.3, 2.5	Make calculations appropriate for measuring and estimating materials for hauling
Navigate the world of work	1.1, 1.2, 1.6-1.8	- Accepts responsibility and ownership for the task, and makes decisions on completion parameters and the need for coordination with others - Identifies and acts on issues that contravene relevant policies, procedures and legal requirements
Interact with others	1.2, 1.4, 1.5, 3.7	Uses a range of strategies and reads verbal and non-verbal signals, establishes a sense of connection and builds rapport with clients and workmates
Get the work done	1.1-1.3, 1.6-1.10, 2.1-2.5, 3.3, 3.4, 3.6	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Accepts responsibility for addressing less predictable problems and initiates 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
ICTCBL308 Install underground cable	ICTCBL3019A Install underground cable	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 ICTCBL308 Install underground cable

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Performance Evidence

Evidence of the ability to:

- haul underground cable to industry standards
- restore site and complete documentation
- comply with all related safety requirements and work practices.

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:

- describe the Australian Communications and Media Authority (ACMA) regulation requirements for Telecommunications Cabling Provider Rules
- recognise the features and operating requirements of hauling equipment
- identify legislation, codes of practice and other formal agreements that impact on hauling
- outline the manufacturer's requirements for safe operation of hauling equipment
- specify health and safety requirements relating to the hauling and site conditions
- identify typical issues and challenges that occur on the worksite.

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 installation of underground cable may be conducted
- installation 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.

Links

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