



Australian Government

ICTCBL307 Install underground enclosures and conduit

Release: 1

ICTCBL307 Install underground enclosures and conduit

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 enclosures and conduit, either direct buried or in pits, for new or cable maintenance tasks in access networks for outdoor installations within client premises or in public locations permitted by the Australian Communications and Media Authority (ACMA).

It applies to technical staff who install underground infrastructure for new and upgraded telecommunications cabling for domestic, commercial or industrial clients.

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 installation of underground enclosure and conduit	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 existing and potential hazards on worksite 1.4 Verify location of proposed installation according to appropriate plans obtained from authorised personnel 1.5 Obtain information on location of other services from relevant

ELEMENT	PERFORMANCE CRITERIA
	authorities 1.6 Organise tools and equipment for given work and safe work practice 1.7 Erect barriers according to safety requirements
2. Install enclosure and conduit	2.1 Excavate site, maintaining stability and allowing ease of access 2.2 Construct or install enclosure or pit according to design specifications and following work health and safety (WHS) and environmental requirements 2.3 Install conduit to specifications and manufacturer's requirements, ensuring that internal surfaces are free from impediments and sharp edges due to cable hauling 2.4 Seal conduit entry into enclosure against ingress of foreign matter 2.5 Install cable support structure and access facilities in pits to specifications
3. Restore site and complete documentation	3.1 Complete backfill safely using suitable spoil and materials that ensure conduit protection 3.2 Reinstate site to identified requirements 3.3 Complete reports on installation and design amendments accurately and file promptly according to enterprise requirements 3.4 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, 1.4, 1.5, 1.7, 2.2-2.5, 3.2	Critically analyses plans and other documentation from a variety of sources and consolidates information to determine requirements
Writing	1.3, 3.3, 3.4	- Prepares documentation and correspondence using clear language and correct spelling and terminology - Accurately records and completes information in organisational systems

Oral Communication	1.3, 3.4	- Interacts effectively in verbal exchanges using active listening, questioning and reading of verbal and non-verbal signals to convey and clarify information - Clearly explains detailed information using language, tone and pace appropriate to the audience
Numeracy	2.1-2.3, 2.5	- Takes measurements and uses them for work layout and construction - Make calculations appropriate for measuring and estimating materials for construction
Navigate the world of work	1.1, 1.2, 2.2, 3.3	- 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	1.3-1.5, 3.4	- Uses a range of strategies to establish a sense of connection and build rapport with clients and workmates - Identifies and explores differences in a diverse range of people in the work context and makes adjustments to communication in recognition of these differences
Get the work done	1.2-1.4, 1.6, 1.7, 2.1-2.5, 3.1-3.3	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Makes routine decisions and implements standard procedures for routine tasks, using formal decision making processes for more complex and non-routine situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL307 Install underground enclosures and conduit	ICTCBL3018A Install underground enclosures and conduit	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 ICTCBL307 Install underground enclosures and conduit

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Performance Evidence

Evidence of the ability to:

- excavate for installation of an enclosure and conduit to industry standards, applying related health and safety requirements and work practices
- install enclosure and conduit according to specifications and industry standards
- restore site and complete documentation.

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:

- recognise the features and operating requirements of excavation and installation to select appropriate equipment
- outline the manufacturer's requirements for safe operation of equipment
- recognise the legislation, codes of practice and other formal agreements that impact on the work activity
- specify health and safety requirements relating to the activity and site conditions
- identify the components required for enclosures, pits and conduit
- describe the methods of installing enclosures and conduit as they apply to manufacturer's specifications and regulation
- identify typical issues and challenges that occur on 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 installation of underground enclosures and conduit may be conducted
- installation pits, enclosures and conduit 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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