



Australian Government

ICTCBL334 Install underground enclosures and conduit

Release: 1

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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 underground enclosures and conduit, either direct buried or in pits, for new or cable maintenance tasks in access networks for outdoor installations within customer 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 customers.

Licensing, legislative, regulatory and certification requirements apply to telecommunications systems. Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. 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. Refer to the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide 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 Obtain construction design plan from appropriate personnel and determine and obtain type of underground enclosure specified 1.2 Arrange access to site according to required enterprise procedure 1.3 Inform appropriate personnel of existing and potential worksite hazards

ELEMENT	PERFORMANCE CRITERIA
	1.4 Verify location of proposed installation according to appropriate plans obtained from authorised personnel 1.5 Obtain information about location of other services from relevant authorities 1.6 Organise plant, tools and equipment for given work and safe work practice 1.7 Place recognised barriers during construction according to safety and enterprise requirements
2. Install enclosure and conduit	2.1 Excavate site, maintaining stability and allowing ease of access 2.2 Install enclosure or pit according to design specifications, and work health and safety (WHS) and environmental requirements 2.3 Install conduit according to specifications and manufacturer requirements, ensuring internal surfaces are free from impediments and sharp edges for cable hauling 2.4 Seal conduit entry into enclosure against foreign matter 2.5 Install cable support structure and access facilities in pits according to specifications
3. Restore site and complete documentation	3.1 Complete backfill safely using suitable soil and materials that ensure conduit protection 3.2 Recover obsolete materials and equipment and return to appropriate point for disposal 3.3 Restore site according to requirements of enterprise or approving authority and customer satisfaction 3.4 Complete reports on installation and design amendments accurately and file promptly according to enterprise requirements 3.5 Notify appropriate personnel of job completion and obtain sign-off

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	Critically analyses plans and other documentation from a variety of sources and consolidates information to determine requirements
Writing	Prepares documentation and correspondence using clear language

Skill	Description
	- and correct spelling and terminology - Accurately records and completes information in enterprise systems
Oral Communication	- 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	- Takes measurements and uses them for work layout and construction - Makes calculations appropriate for measuring and estimating materials for construction
Navigate the world of work	- 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	- Uses a range of strategies to establish a sense of connection and build rapport with customers 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	- 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

ICTCBL334 Install underground enclosures and conduit supersedes and is equivalent to ICTCBL307 Install underground enclosures and conduit.

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 ICTCBL334 Install underground enclosures and conduit

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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:

- interpret and apply design plans and prepare for construction
- use specialised hand or power tools and equipment normally used for excavation, pipe, pit and conduit installation and site restoration, safely
- excavate for installation of an enclosure and conduit according to industry standards, applying related health and safety requirements and work practices
- install enclosure and conduit according to specifications and industry standards.

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

- features and operating requirements of excavation and installation to select appropriate equipment
- existing underground services
- manufacturer requirements for safe operation of equipment
- legislation, regulations, codes, standards and other formal agreements that impact on the work activity
- construction design plans
- specific work health and safety and environmental requirements relating to the activity and site conditions
- components required for enclosures, pits and conduit
- methods of installing enclosures and conduit as they apply to manufacturer specifications and regulatory requirements
- typical issues and challenges that occur on site.

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 installation of underground enclosures and conduit can 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. 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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