



Australian Government

ICTCBL213 Construct underground telecommunications infrastructure

Release: 1

ICTCBL213 Construct underground telecommunications infrastructure

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 skills and knowledge required to construct underground telecommunications infrastructure made up of conduits and enclosures for cabling provisioning.

It applies to individuals in technical roles in civil construction whose work involves the installation of pits and pre-built enclosures with connecting pipes for underground telecommunications infrastructure.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

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 to construct underground work	1.1 Obtain construction design plan from appropriate personnel to scope work and arrange for site access 1.2 Notify appropriate personnel of identified safety hazards and other services 1.3 Obtain plant, tools and safety equipment to perform tasks safely and efficiently 1.4 Determine type of underground enclosure specified in construction design plan required for project

ELEMENT	PERFORMANCE CRITERIA
2. Install enclosure	2.1 Use tools according to enterprise guidelines and work health and safety (WHS) regulations 2.2 Place foundation of suitable material to provide safe and stable footing prior to installing underground enclosure in excavation 2.3 Place recognised barrier over construction where enclosure is to be installed over power cables according to enterprise requirements or agreements with other authorities 2.4 Install earth mat facility under enclosure where specified and required by enterprise 2.5 Install enclosure specified in construction design plan to manufacturer's specifications using specified materials
3. Install connecting pipe works	3.1 Install conduit in trench to enterprise specifications 3.2 Connect conduit to enclosure according to manufacturer's specifications and industry practice
4. Complete project	4.1 Complete reports according to enterprise policy and record alterations to plans using appropriate symbols 4.2 Recover obsolete materials and equipment, and return to appropriate point for disposal 4.3 Restore site according to requirements of enterprise or approving authority and to client satisfaction 4.4 Notify appropriate personnel of job 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	1.1, 1.4, 2.5, 4.1	Interprets information from technical sources to identify relevant and key information
Writing	4.1, 4.4	Documents outcomes and changes to plans using industry relevant terminology and recognised plan symbols
Numeracy	1.4, 2.4, 3.1	- Interprets scales and ratios on plans - Performs basic calculations appropriate to

		measuring and estimating size
Navigate the world of work	1.2, 2.1-2.5, 3.2, 4.3	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
Interact with others	1.1, 1.2, 4.4	Identifies and follows accepted communication practices and protocols when liaising with clients, internal and external personnel on technical and operational matters
Get the work done	1.1, 1.4, 2.1-2.5, 3.1, 4.2, 4.3	- Determines job sequence and works logically and systematically to undertake clearly defined tasks - Analyses task requirements to decide on appropriate equipment and practices - 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

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL213 Construct underground telecommunications infrastructure	ICTCBL2133A Construct underground telecommunications infrastructure	Updated to meet Standards for Training Packages Performance Criteria clarified	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 ICTCBL213 Construct underground telecommunications infrastructure

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Performance Evidence

Evidence of the ability to:

- interpret and apply design plans and prepare for construction
- install enclosures including pipe, pit and prefabricated manhole
- construct in two different soil types: sand, rock, soil or combination soil types
- shore an excavation site to meet enterprise and regulatory requirements
- demonstrate use of specialised hand or power tools and equipment normally used for excavation, pipe, conduit installation and site restoration safely
- complete the works and documentation
- apply related work health and safety (WHS) requirements and work practices associated with excavation, enclosure installation and site restoration.

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 following elements of civil construction:
 - construction plant, tools and equipment operation
 - enclosure construction methods
 - foundations
 - plans
- identify legislation, codes of practice and other formal agreements that impact on the work activity
- identify the manufacturer's requirements for safe operation of equipment
- identify specific WHS requirements relating to the activity and site conditions
- 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 enclosure construction may be conducted
- construction equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on construction.

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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