



Australian Government

ICTCBL249 Haul underground cable for installation and maintenance work

Release: 1

ICTCBL249 Haul underground cable for installation and maintenance work

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 haul underground cable for maintenance, new installations or upgrades in access networks or customer premises.

It applies to technicians who install and recover cables, including multi-pair, coaxial and optical fibre for domestic, commercial or industrial situations.

Licensing, legislative, regulatory and certification requirements apply to telecommunications systems. 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 safe underground cable hauling	1.1 Arrange access to site according to required procedure 1.2 Inform appropriate personnel of identified hazards on worksite 1.3 Confirm hauling location of proposed cable according to appropriate plan specifications obtained from authorised personnel 1.4 Obtain information about proposed locations of other services from relevant authorities 1.5 Set up tools and equipment required for safe work practice according to enterprise guidelines 1.6 Check for dangerous gases and place guards around open

ELEMENT	PERFORMANCE CRITERIA
	manholes according to work health and safety (WHS) and environmental requirements
2 Construct aerial to underground transition	2.1 Install cable protection on pole for transition using approved hardware according to industry standards and asset owner requirements 2.2 Connect conduit to pits or manholes as designed according to industry standards and asset owner requirements
3 Haul cable	3.1 Handle existing cables in a way that avoids cable damage 3.2 Use roping techniques to prove that underground conduit is clear for hauling 3.3 Attach cable to rope for hauling, lubricate cable as required and haul at correct tension, maintaining smooth passage between dispenser and hauler 3.4 Haul cable through conduit to facilitate aerial to underground transition /underground to aerial transition, as required by the design 3.5 Maintain cable and services separations in parallel runs and crossovers to meet manufacturer and regulatory requirements 3.6 Maintain sufficient cable length allowance for jointing and ensure cable is laid up and bent within bending radius tolerance for cable materials in underground enclosure
4 Terminate, seal and test cable	4.1 Seal cables according to enterprise requirements to ensure no sheath damage 4.2 Tag cable for future identification 4.3 Test cable for continuity 4.4 Record and report test results for escalation
5 Complete works on site	5.1 Record any approved alteration to original design using correct symbols and return to appropriate personnel 5.2 Complete and sign reports, as required, according to enterprise policy 5.3 Reinstate site to customer satisfaction and dispose of waste in an environmentally safe manner 5.4 Notify appropriate personnel about 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	Interprets textual information from relevant sources to identify relevant and key information
Writing	Uses clear, specific and industry related terminology to complete workplace documentation
Oral Communication	Uses language and non-verbal features appropriate to context
Numeracy	Takes readings and measurements and interprets results
Navigate the world of work	Complies with explicit policies, procedures and legislative requirements relevant to own role
Interact with others	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	- Determines job sequence and works logically and systematically to undertake clearly defined tasks - Analyses task requirements to decide on appropriate equipment and practices

Unit Mapping Information

No equivalent unit. Supersedes and is not equivalent to ICTCBL207 Haul underground cable.

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 ICTCBL249 Haul underground cable for installation and maintenance work

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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:

- plan the works and prepare the site
- read and interpret drawings and designs to interpret installation requirements
- haul cable applying related work health and safety (WHS) requirements and work practices
- transition cable from aerial to underground or underground to aerial
- use cable dispensing equipment
- use specialised hand or power tools and equipment for hauling cable safely
- test the installation, document and escalate the test result
- prepare all reports and records to industry and enterprise standards.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

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:

- legislation, regulations, codes, standards, enterprise requirements and other formal agreements that impact on hauling cable
- specific WHS requirements and environmental procedures relating to the activity and site conditions
- Australian Communications and Media Authority (ACMA) Telecommunications Cabling Provider Rules competency requirements
- features and operating requirements of test equipment
- information required to operate equipment according to a test specification
- manufacturer recommendations for correct hauling of cables
- safety precautions when working with laser-based systems

- test methods and performance requirements
- typical issues and challenges that occur on site
- cable protection guards
- hardware to secure cables.
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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 cable can 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. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

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