



Australian Government

ICTCBL249 Haul underground cable for installation and maintenance work

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 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	<ul style="list-style-type: none">1.1 Arrange access to site according to required procedure1.2 Inform appropriate personnel of identified hazards on worksite1.3 Confirm hauling location of proposed cable according to appropriate plan specifications obtained from authorised personnel1.4 Obtain information about proposed locations of other services from relevant authorities1.5 Set up tools and equipment required for safe work practice according to enterprise guidelines1.6 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	<p>2.1 Install cable protection on pole for transition using approved hardware according to industry standards and asset owner requirements</p> <p>2.2 Connect conduit to pits or manholes as designed according to industry standards and asset owner requirements</p>
3 Haul cable	<p>3.1 Handle existing cables in a way that avoids cable damage</p> <p>3.2 Use roping techniques to prove that underground conduit is clear for hauling</p> <p>3.3 Attach cable to rope for hauling, lubricate cable as required and haul at correct tension, maintaining smooth passage between dispenser and hauler</p> <p>3.4 Haul cable through conduit to facilitate aerial to underground transition /underground to aerial transition, as required by the design</p> <p>3.5 Maintain cable and services separations in parallel runs and crossovers to meet manufacturer and regulatory requirements</p> <p>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</p>
4 Terminate, seal and test cable	<p>4.1 Seal cables according to enterprise requirements to ensure no sheath damage</p> <p>4.2 Tag cable for future identification</p> <p>4.3 Test cable for continuity</p> <p>4.4 Record and report test results for escalation</p>
5 Complete works on site	<p>5.1 Record any approved alteration to original design using correct symbols and return to appropriate personnel</p> <p>5.2 Complete and sign reports, as required, according to enterprise policy</p> <p>5.3 Reinstate site to customer satisfaction and dispose of waste in an environmentally safe manner</p> <p>5.4 Notify appropriate personnel about job completion and obtain sign-off</p>

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	<ul style="list-style-type: none">Interprets textual information from relevant sources to identify relevant and key information
Writing	<ul style="list-style-type: none">Uses clear, specific and industry related terminology to complete workplace documentation
Oral Communication	<ul style="list-style-type: none">Uses language and non-verbal features appropriate to context
Numeracy	<ul style="list-style-type: none">Takes readings and measurements and interprets results
Navigate the world of work	<ul style="list-style-type: none">Complies with explicit policies, procedures and legislative requirements relevant to own role
Interact with others	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Determines job sequence and works logically and systematically to undertake clearly defined tasksAnalyses 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>