



**Australian Government**

# **ICTCBL332 Locate, identify and rectify copper cable faults**

**Release: 1**

# ICTCBL332 Locate, identify and rectify copper cable faults

## 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 use systematic and logical fault-finding techniques according to all safety requirements and work practices commonly used in fault remediation.

It applies to copper cable jointers who install and maintain telecommunications cable networks.

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 for fault-finding activity	1.1 Determine, from documentation or discussion with appropriate personnel, work to be undertaken, including reported fault location 1.2 Access site according to workplace and/or enterprise procedures 1.3 Identify existing and potential site hazards, assess risks and implement risk control measures 1.4 Prepare testing in consultation with others affected by the proposed work and sequence work appropriately 1.5 Obtain required materials for testing, reporting and rectification work according to enterprise procedures and job/work ticket requirements 1.6 Obtain required tools, equipment and testing devices according

ELEMENT	PERFORMANCE CRITERIA
	to enterprise procedures and check for correct operation and safety
2. Conduct activities to test and locate cable faults	2.1 Establish nature of fault through analysis of source, history and available information 2.2 Select and use appropriate test equipment to locate, diagnose and analyse fault 2.3 Conduct tests according to selected test equipment operating instructions and safety requirements, and ensure diagnostic process aligns to customer service requirements 2.4 Identify and test for fault efficiently and sustainably 2.5 Evaluate test results to determine cause of fault/s using appropriate methods and processes
3. Rectify fault	3.1 Carry out work health and safety (WHS) activities prior to entering a pit or manhole and protect underground assets prior to excavation 3.2 Physically locate fault position in a length of cable or buried joint 3.3 Rectify fault or escalate to appropriate level 3.4 Discuss and document established methods for dealing with unexpected situations with appropriate personnel 3.5 Confirm that current standard of performance for copper cables will be viable after fault remediation work 3.6 Confirm integrity of repaired fault using appropriate carrier testing processes
4. Report fault-findings and rectification	4.1 Report fault identification and fault clearance 4.2 Update fault records 4.3 Restore worksite to customer satisfaction and acceptable industry standards 4.4 Notify customer and/or relevant parties to 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

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Reading	<ul style="list-style-type: none"> <li>Recognises and interprets technical documentation to determine important information</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Uses clear, specific and industry-related terminology to develop basic reports and in all written tasks</li> </ul>
Oral Communication	<ul style="list-style-type: none"> <li>Liases with customers about technical requirements using specific and relevant language</li> <li>Uses listening and questioning techniques to confirm understanding</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Evaluates and reviews technical data for specifications</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>Appreciates implications of legal and regulatory responsibilities related to own role</li> <li>Seeks advice about expectations when preparing for work</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Determines job priorities and works logically and systematically to undertake clearly defined and familiar tasks</li> <li>Implements actions according to a predetermined plan, making slight adjustments if necessary and addressing some unexpected issues</li> <li>Takes responsibility for routine decision-making by selecting from a range of predetermined options in routine situations, identifying and taking some situational factors into account</li> <li>Diagnoses and implements standard solutions to for routine problems, seeking assistance from more experienced colleagues when required</li> <li>Understands purposes and specific functions of common fault location equipment and uses them effectively to complete routine tasks</li> </ul>

## Unit Mapping Information

No equivalent unit. New unit.

## Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>