



Australian Government

ICTCBL405 Remotely locate and identify cable network faults

Release: 1

ICTCBL405 Remotely locate and identify cable network faults

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 the skills and knowledge required to remotely locate and identify cable network faults in voice, video and data telecommunications applications using metallic and optical fibre cables.

It applies to technicians who are required to locate telecommunications cable faults in access networks. This may be done at a centralised testing office and make use of computer test routines and databases.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer to the Implementation Guide Companion Volume 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. Verify fault report	1.1 Locate source of fault using available information and contacts to verify nature of fault as reported 1.2 Perform preliminary operational testing according to type of fault presentation, fault environment and enterprise guidelines to verify nature of fault 1.3 Analyse historical data to identify possible causes and solutions
2. Conduct remote testing to diagnose	2.1 Evaluate cable fault details and plan strategy to conduct remote testing

ELEMENT	PERFORMANCE CRITERIA
network fault	2.2 Conduct appropriate remote diagnostic test to isolate and diagnose network fault 2.3 Determine urgency and impact of fault and identify required response time frame 2.4 Evaluate diagnostic tests to determine type, location and nature of network fault
3. Dispatch fault-finding field personnel	3.1 Prepare fault report and forward to appropriate staff according to enterprise guidelines 3.2 Notify fault centre and arrange for dispatch of technician to rectify fault 3.3 Notify client of fault progress and arrange for fault clearance time

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, 1.3, 2.1, 2.4	Analyses and consolidates information and data from a range of sources, against defined criteria and requirements, and checks for accuracy and completeness
Writing	2.1, 3.1-3.3	Prepares a range of textual information appropriate for the audience and for informal and formal purposes
Oral Communication	1.1, 3.1-3.3	Interacts effectively in verbal exchanges, using active listening and questioning, to convey and clarify information
Numeracy	1.2, 1.3, 2.2-2.4	Takes measurements and performs mathematical calculations to check, interpret and confirm results of system tests
Navigate the world of work	1.2	Takes full responsibility for following policies, procedures and legislative requirements
Interact with others	1.1, 3.1-3.3	Collaborates with and implements strategies for a diverse range of colleagues and clients to build rapport, foster strong relationships and achieve outcomes

Get the work done	1.1-1.3, 2.1-2.4, 3.3	- Plans and sequences complex tasks and workload, negotiating key aspects with others and taking into account capabilities, efficiencies and effectiveness - Applies systematic and analytical decision making processes for complex and non-routine situations - Uses digital technologies and systems to access information, research and diagnose faults
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL405 Remotely locate and identify cable network faults	ICTCBL4099A Remotely locate and identify cable network faults	Updated to meet Standards for Training Packages	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 ICTCBL405 Remotely locate and identify cable network faults

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Performance Evidence

Evidence of the ability to:

- methodically approach fault identification
- conduct tests appropriate to the type of fault identified
- interpret test results
- provide instructions to staff engaged in on-site repair.

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 features and operating requirements of test equipment
- identify appropriate tests to be performed
- describe the legislation, codes of practice and standard procedures for cable network faults
- specify health and safety requirements relating to fault finding in cable networks
- identify typical issues and challenges that occur when performing remote tests and fault finding.

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 remote investigation of cable network faults may be conducted
- fault-finding equipment currently used in industry
- relevant documentation that impacts on cable network and fault-finding activities.

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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