



Australian Government

ICTCBL306 Locate and identify cable system faults

Release: 1

ICTCBL306 Locate and identify cable system 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 locate and identify cable system faults in communications cables at enterprise and client premises sites. The cable types may be telecommunications digital, voice, data and active format description (AFD) in digital TV cabling.

It applies to technical staff who are required to locate and rectify communications cable system faults, including local area networks (LAN) and wide area networks (WAN), master antenna television (MATV), cable television (CATV), closed-circuit television (CCTV), digital video broadcasting – terrestrial (DVB-T), digital video broadcasting – satellite (DVB-S), security alarm systems, fire systems, voice over internet protocol (VoIP) networks and radio communications. Their roles could include carrying out installation, maintenance and cable upgrades including structured cabling, fibre cabling, coaxial cabling and cable termination equipment.

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. Prepare to locate and rectify cable fault	1.1 Prepare for given work according to relevant legislation, codes, regulations and standards 1.2 Inform appropriate personnel of existing and potential hazards on

ELEMENT	PERFORMANCE CRITERIA
	worksite 1.3 Arrange access to site according to required procedure 1.4 Establish type of cable and nature of fault from client for cable system 1.5 Select suitable testing tools and equipment and personal protective equipment to meet required industry standards
2. Locate and diagnose cable fault	2.1 Conduct appropriate test following work health and safety (WHS) and environmental requirements to identify type of cable fault 2.2 Isolate fault progressively to remove likely variables from assessment 2.3 Locate cable or cable termination equipment fault without undue interruptions to client activity in shortest possible time 2.4 Notify client of findings
3. Rectify fault	3.1 Present client with options to rectify fault 3.2 Advise client of costs of any repair not covered by service agreement 3.3 Conduct fault rectification, if client agrees, in a manner that is safe for repair team and client 3.4 Escalate any unresolved faults to other parties for resolution if required
4. Complete documentation and clean up worksite	4.1 Advise client of successful fault clearance and obtain sign off 4.2 Complete all records 4.3 Complete reports to justify fault diagnosis and rectification methodology if required 4.4 Remove all waste and debris from worksite and dispose of according to environmental requirements 4.5 Restore any changes made to worksite during fault repair to client's satisfaction

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance	Description
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	Criteria	
Reading	1.1, 1.4, 2.1	<ul style="list-style-type: none"> Interprets, consolidates and checks information and data Interprets technical documentation and test results from equipment manuals and specifications
Writing	1.2, 1.4, 2.4, 3.1, 3.2, 3.4, 4.1-4.3	<ul style="list-style-type: none"> Accurately records and completes information in organisational systems Prepares documentation and correspondence using clear language and correct spelling and terminology
Oral Communication	1.2, 1.4, 2.4, 3.1, 3.2, 3.4, 4.1, 4.5	<ul style="list-style-type: none"> Clearly explains detailed information using language, tone and pace appropriate to the audience Interacts effectively in verbal exchanges using active listening, questioning, and reading of verbal and non-verbal signals to convey and clarify information
Numeracy	2.1, 3.2	<ul style="list-style-type: none"> Performs mathematical calculations to check, interpret and confirm numerical information
Navigate the world of work	1.1, 1.3, 1.5, 2.1, 4.4	<ul style="list-style-type: none"> Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements Seeks advice and clarification for new activities
Interact with others	1.2, 1.4, 2.4, 3.1, 3.2, 3.4, 4.1, 4.5	<ul style="list-style-type: none"> Uses a range of strategies and reads verbal and non-verbal signals to establish a sense of connection and build rapport with clients and workmates Selects and uses appropriate conventions and protocols when communicating to clients and co-workers in a range of work contexts
Get the work done	1.3, 1.5, 2.1-2.3, 3.3, 4.4, 4.5	<ul style="list-style-type: none"> Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes Accepts responsibility for addressing less predictable problems and initiates standard procedures in response, applying problem solving processes in determining a solution Uses familiar digital technologies and systems to test cables, access information, enter data, present information and communicate with others

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL306 Locate and identify cable system faults	ICTCBL3015A Locate and identify cable system faults	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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