



Australian Government

ICTCBL310 Install aerial cable

Release: 1

ICTCBL310 Install aerial cable

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 install aerial cable in domestic, commercial or industrial communications applications that include digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LAN), wide area networks (WAN), master antenna television (MATV), cable television (CATV), closed-circuit television (CCTV), long term evolution (LTE) and multimedia.

It applies to technical staff installing aerial cable for client and carrier networks. Installations are completed outdoors on a client's premises using basic rigging procedures, methods and equipment for working safely at heights.

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 for aerial cable installation	1.1 Prepare for given work according to relevant legislation, codes, regulations and standards 1.2 Arrange access to site according to required procedure 1.3 Verify location of proposed aerial cable installation requirements according to appropriate plans and recognise constraints 1.4 Obtain information on location of other services from relevant

ELEMENT	PERFORMANCE CRITERIA
	authorities 1.5 Inform appropriate personnel of existing and potential hazards on worksite 1.6 Select tools and equipment required for safe work practice 1.7 Erect barriers according to safety requirements 1.8 Assess support structure as safe for normal working conditions 1.9 Set up cable installation equipment according to manufacturer's requirements and enterprise guidelines
2. Attach aerial cable to catenary	2.1 Select type of cable bearer for catenary wire or integral bearer installation 2.2 Use basic rigging procedures, methods and equipment for working safely at heights 2.3 Secure catenary wire or integral bearer wire permanently to support structure using safe installation practices according to specifications 2.4 Haul and secure cable to catenary wire following health and safety and environmental requirements 2.5 Ensure minimum sag heights are achieved in accordance with Australian Communications and Media Authority (ACMA) and Australian Standards
3. Seal and secure aerial cable	3.1 Seal cable ends to prevent ingress of foreign material 3.2 Secure cable loop, if required, on support structure to reduce damage to conductors or fibres and to enable ease of access for maintenance 3.3 Weather seal building entry points where appropriate 3.4 Fit over-voltage protection devices to all cables with metallic component where required 3.5 Complete reports on installation and design amendments accurately and file promptly according to enterprise requirements
4. Restore site and complete documentation	4.1 Restore worksite to client's satisfaction 4.2 Complete reports on installation 4.3 Notify client and obtain sign off

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, 1.4, 1.9, 2.1, 2.3, 2.4	Analyses plans, regulations and other documentation from a variety of sources and consolidates information to determine requirements
Writing	1.2, 1.5, 3.5, 4.2, 4.3	- Prepares documentation and correspondence using clear language and correct spelling and terminology - Documents outcomes and changes to plans using industry relevant terminology and recognised plan symbols
Oral Communication	1.2, 1.4, 1.5, 4.3	Interacts effectively in verbal exchanges using active listening, questioning and reading of verbal and non-verbal signals to convey and clarify information
Numeracy	1.9, 2.3	Make calculations appropriate for measuring and estimating materials for construction
Navigate the world of work	1.1, 1.9, 2.4, 2.5, 3.5	- Accepts responsibility and ownership for the task and makes decisions on completion parameters and the need for coordination with others - Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements
Interact with others	1.2, 1.4, 1.5, 4.3	Uses a range of strategies to establish a sense of connection and build rapport with clients and workmates
Get the work done	1.3, 1.6-1.9, 2.1-2.5, 3.1-3.4, 4.1	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Makes routine decisions and implements procedures for routine tasks, using formal decision making processes for more complex and non-routine situations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTCBL310 Install aerial cable	ICTCBL3021A Install aerial cable	Updated to meet Standards for Training Packages	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
		Added extra performance criterion for clarification	

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 ICTCBL310 Install aerial cable

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Performance Evidence

Evidence of the ability to:

- prepare site for installation, ensuring all relevant authorities have been notified and approvals obtained prior to commencement
- install aerial cable using effective practices
- use basic rigging procedures, methods and equipment for working safely at heights
- comply with all related health and safety requirements and work practices.

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 Australian Communications and Media Authority (ACMA) competency requirements for Telecommunications Cabling Provider Rules as they apply to aerial cable
- recognise the features and operating requirements of equipment used for aerial cabling and rigging
- identify legislation, codes of practice and other formal agreements that impact on aerial cabling
- outline the manufacturer's requirements for safe operation of installation and rigging equipment
- specify the health and safety requirements relating to aerial cabling and working at heights
- identify typical issues and challenges that occur on the worksite.

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 aerial cable installation may be conducted
- aerial installation equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on aerial cable installation 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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