



Australian Government

ICTCBL335 Construct aerial cable supports

Release: 1

ICTCBL335 Construct aerial cable supports

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

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

Licensing, legislative, regulatory and certification requirements apply to telecommunications systems and working at heights. Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. 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. Refer to the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide 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 site for installation	1.1 Access site according to required enterprise procedures 1.2 Verify aerial cable support installation requirements according to approved designs, and recognise and plan for constraints

ELEMENT	PERFORMANCE CRITERIA
	1.3 Obtain information about location of other services from relevant authorities 1.4 Inform appropriate personnel of existing and potential worksite hazards 1.5 Assess support structure safety according to standard working conditions and proceed according to this assessment 1.6 Set up cable support installation equipment according to manufacturer requirements and enterprise guidelines
2. Install aerial support structures	2.1 Select type of aerial cable support for catenary wire or integrated bearer or self-supporting cable installation 2.2 Use basic rigging procedures, methods and equipment for working safely at heights 2.3 Erect barriers and signage according to safety requirements 2.4 Construct support foundations to specifications and provide for safe and secure operation of support structure 2.5 Install aerial cable supports securely and safely according to plan, manufacturer specifications, industry standards and authorisations
3. Restore site and complete documentation	3.1 Undertake quality check on completed installation 3.2 Reinstate site to identified requirements 3.3 Complete reports on installation and design amendments and record according to telecommunications industry requirements 3.4 Notify customer and 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
Reading	Analyses plans and other documentation from a variety of sources and consolidates information to determine construction requirements
Writing	Accurately records and completes enterprise documents and correspondence using clear language and correct spelling, grammar and terminology
Oral Communication	Interacts effectively in verbal exchanges using active listening, questioning and reading of verbal and non-verbal signals to convey

Skill	Description
	- and clarify information - Clearly explains detailed information using language, tone and pace appropriate to the audience
Numeracy	- Takes measurements and use them for work layout and construction - Makes calculations appropriate for measuring and estimating materials for construction
Navigate the world of work	- Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements - Seeks advice and clarification for new activities
Interact with others	Uses a range of strategies to establish a sense of connection and build rapport with customers and work colleagues
Get the work done	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Makes decisions and implements standard procedures for routine tasks, using formal decision making processes for more complex and non-routine situations - Accepts responsibility for addressing less predictable problems and applies problem solving processes in determining a solution

Unit Mapping Information

ICTCBL335 Construct aerial cable supports supersedes and is equivalent to ICTCBL309 Construct aerial cable supports.

Links

Companion Volume Implementation Guides are available from VETNet -

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

Assessment Requirements for ICTCBL335 Construct aerial cable supports

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Performance Evidence

The candidate must demonstrate, on two occasions, the ability to perform the tasks outlined in the elements, performance criteria and foundation skills, and to:

- prepare site for aerial cable support construction, ensuring all relevant authorities have been notified and approvals obtained prior to commencement
- install aerial support structures using pole and wall supports, applying all related health and safety requirements and work practices and manufacturer requirements

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

Knowledge Evidence

The candidate must demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria and foundation skills, which includes knowledge about:

- relevant legislation, regulations, codes, and standards and other formal agreements that impact on aerial cable supports, in particular:
 - Australian Communications and Media Authority (ACMA) regulatory requirements for Telecommunications Cabling Provider Rules as they apply to aerial cabling
- features and operating requirements of cable supports and installation equipment and authorisations
- requirements for safe operation of equipment
- safety precautions required when working at heights and on pole infrastructure
- other health and safety and environmental requirements relating to the activity, equipment types and site conditions
- typical worksite issues and challenges.

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- site/s where construction of aerial cable supports can be conducted
- aerial support 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. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Links

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