

ICTRFN201 Install a satellite antenna

Release: 1

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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 assemble, connect, align and test equipment according to plans, specifications and site specific requirements.

It applies to individuals who work on single and multiple dwellings, commercial buildings, telecommunications structures and at ground level to enable signals from geostationary communications satellites. Installations might be new or existing, stand alone or be a part of a site with multiple antennas.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer to the ICT Implementation Guide Companion Volume or the relevant regulator for details of licensing, legislative or certification requirements.

Unit Sector

Telecommunications – radio frequency networks

Elements and Performance Criteria

Elements	Performance Criteria		
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element.		
1. Prepare for work on satellite	1.1 Prepare for installation, applying all relevant legislation, codes, regulations and standards, and identify any safety issues		
antenna	1.2 Organise resources to be available on site		
	1.3 Contact client to arrange access to site and notify about possible outage		
	1.4 Organise tools and equipment and ensure they are in safe working		

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	order and adjusted to manufacturer's specifications			
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	1.5 Obtain details of satellite to be acquired and precise details of satellite antenna location			
	1.6 Determine azimuth and elevation for satellite receiving antenna			
	1.7 Determine polarisation angle of satellite receiving antenna feedhorn			
	1.8 Determine suitable position to mount antenna with agreement from client			
2. Assemble and mount satellite antenna and cables	2.1 Assemble satellite antenna on site according to plans, specifications and enterprise guidelines using safe industry practices			
	2.2 Connect coaxial cable to antenna and install lightning protection devices			
	2.3 Mount satellite antenna on to installed mounting arrangements and set initial antenna azimuth, elevation and polarisation			
3. Test and align antenna system	3.1 Connect installed antenna system to satellite receiver or test equipment and make final adjustments to azimuth, elevation and polarisation to optimise signal level and quality			
	3.2 Conduct performance tests according to manufacturer's specifications and enterprise guidelines			
	3.3 Interpret test results, compare with manufacturer's design specifications and make adjustments			
4. Complete administrative duties	4.1 Record test results and complete appropriate records			
	4.2 Secure and clean up site to original condition in environmentally safe manner			
	4.3 Notify client of work completion and obtain sign off			

Foundation Skills

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	1.4, 2.1, 3.2, 3.3	 Recognises and interprets textual information from relevant sources to determine specifications, enterprise guidelines and plans

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Writing	1.3, 1.8, 4.1, 4.3	•	Uses clear, specific and industry related terminology to complete and update workplace documentation and in written communications with clients	
Oral Communication	1.3, 1.8, 4.3	•	Uses specific and relevant language to clearly articulate operational and site matters Uses questioning and listening techniques to determine the views and opinions of others	
Numeracy	1.6, 1.7	•	Analyses numerical information to measure angles, evaluate technical data, interpret results and take measurements	
Navigate the world of work	1.1, 1.4, 2.1, 4.2	•	legal and regulatory requirements, with specific reference to safe industry practices	
		•	Understands the main tasks, responsibilities and boundaries of own work	
Get the work done	1.2, 1.4, 1.5, 1.8, 2.1-2.3, 3.1-3.3	•	 Determines job priorities, sequences the steps involved in clearly defined and familiar tasks, and identifies and assembles the resources and access required 	
		•	Takes responsibility for routine decision making by selecting from a range of predetermined options in routine situations, identifying and taking situational factors into account	
		•	Identifies and implements standard solutions for routine problems	

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTRFN201 Install a satellite antenna	ICTRFN2163B Install a satellite antenna	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

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