



Australian Government

ICTRFN202 Install a terrestrial antenna

Release: 1

ICTRFN202 Install a terrestrial antenna

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 and test receiving antenna equipment according to plans, specifications and site specific requirements.

It applies to individuals who might work on single and multiple dwellings, commercial buildings and other telecommunications structures that may 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
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work on terrestrial antenna	1.1 Prepare for installation, applying all relevant legislation, codes, regulations and standards, and identify any safety issues 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 order and adjusted to manufacturer's specifications

2. Assemble and mount antenna and coaxial cable	<p>2.1 Assemble antenna on site according to plans, specifications and enterprise guidelines using safe industry practice</p> <p>2.2 Connect coaxial cable to antenna and install lightning protection devices</p> <p>2.3 Mount antenna to structure, and set polarisation and initial antenna azimuth and elevation</p>
3. Test and align antenna system	<p>3.1 Connect installed antenna system to appropriate test equipment and pan antenna to optimise signal across all specified channel frequencies</p> <p>3.2 Conduct performance tests according to manufacturer's specifications and enterprise guidelines</p> <p>3.3 Interpret test results, compare with manufacturer's design specifications and make adjustments</p>
4. Complete administrative duties	<p>4.1 Record test results and complete appropriate records</p> <p>4.2 Secure and clean up site to original condition in environmentally safe manner</p> <p>4.3 Notify client of work completion and obtain sign off</p>

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, 1.4, 2.1, 3.2, 3.3	<ul style="list-style-type: none"> Recognises and interprets textual information from relevant sources to determine specifications, enterprise guidelines and plans
Writing	1.3, 4.1, 4.3	<ul style="list-style-type: none"> Uses clear, specific and industry related terminology to complete and update workplace documentation and in written communications with clients
Oral Communication	1.3, 4.3	<ul style="list-style-type: none"> Uses specific and relevant language to clearly articulate operational and site matters, and uses questioning and listening techniques to determine the views and opinions of others
Numeracy	3.3	<ul style="list-style-type: none"> Analyses numerical information to interpret and evaluate technical data and results, and to take measurements
Navigate the	1.1, 1.4, 2.1,	<ul style="list-style-type: none"> Takes personal responsibility for adherence to legal

world of work	4.2	<p>and regulatory requirements, with specific reference to safe industry practices</p> <ul style="list-style-type: none"> Understands the main tasks, responsibilities and boundaries of own work
Get the work done	1.1, 1.2, 1.4, 2.1-2.3, 3.1-3.3	<ul style="list-style-type: none"> 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 some 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
ICTRFN202 Install a terrestrial antenna	ICTRFN2164B Install a terrestrial 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>