



Australian Government

ICTTCR302 Install radio plant and equipment on telecommunications structures

Release: 1

ICTTCR302 Install radio plant and equipment on telecommunications structures

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 basic telecommunications radio plant and equipment on standard telecommunications structures.

It applies to technical staff who install basic telecommunications radio plant and equipment on telecommunications structures and use rigging plant and equipment, fall arrest, fall guarding and fall constraint.

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.

Pre-requisite Unit

ICTTCR201 Use rigging practices and systems on telecommunications network structures

ICTTCR202 Use operational safety in a telecommunications rigging environment

ICTTCR203 Use safe rigging practices to climb and perform rescues on telecommunications network structures

Unit Sector

Telecommunications – telecommunications rigging installation

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	1.1 Prepare for given work according to relevant legislation, codes,

installation of radio plant	regulations and standards 1.2 Arrange access to site and discuss client requirements 1.3 Inform appropriate personnel of existing and potential site hazards 1.4 Select tools and safety equipment required for safe rigging practice 1.5 Develop installation plans in agreement with client or site supervisor 1.6 Procure materials and verify delivery against inventory according to industry practice
2. Install plant and equipment	2.1 Set up rigging equipment for safe and effective use according to specifications 2.2 Install telecommunications radio equipment and feeders according to specifications and industry practice following work health and safety (WHS) and environmental requirements 2.3 Maintain installation progress documentation according to company and client requirements
3. Assist with testing and fault finding	3.1 Assist with testing of telecommunications radio equipment mounted on telecommunications structures 3.2 Identify and locate faults by interpreting test results and rectify according to industry practice 3.3 Document test results according to specifications and client requirements
4. Clean up site and complete documentation	4.1 De-rig and lower rigging equipment according to specifications 4.2 Restore site to client expectations following completion of installation, according to industry practice 4.3 Complete documentation and notify client for 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, 1.6, 2.1, 2.2, 3.2, 3.3, 4.1, 4.3	Interprets texts from relevant sources to plan installations, identify job requirements and adhere to procedures and standards
Writing	1.3, 1.5, 2.3, 3.3, 4.3	Uses correct terminology, spelling and grammar

		when advising others of requirements • Develops and completes relevant reports and documentation using clear and technically specific language, and correctly recording numerical data and diagrammatic information
Oral Communication	1.2, 1.3, 1.5, 1.6, 4.3	• Uses listening and questioning skills to confirm understanding of requirements • Participates in a verbal exchange of ideas and solutions and uses appropriate, detailed and clear language to address key personnel and client, and to disseminate information
Numeracy	1.5, 1.6, 2.1, 2.2, 3.2	• Uses mathematical formulae to take accurate measurements and to interpret technical data, and when purchasing supplies and creating supply lists
Navigate the world of work	1.1, 1.6, 2.1-2.3, 3.2, 3.3, 4.1, 4.2	• Takes personal responsibility for adherence to legal and regulatory requirements, standards, specifications and industry practice relevant to own work context, and draws attention to any issues that may affect self or others in relation to radio installations, de-rigging and site restoration
Get the work done	1.1-1.6, 3.1, 3.2	• Plans and implements a range of routine and some non-routine radio installation tasks, accepting stated goals and aiming to achieve them efficiently and safely • Uses systematic, analytical processes when assisting with testing, setting goals, gathering relevant information, and identifying and evaluating options against agreed criteria • Recognises and anticipates an increasing range of familiar problems, their symptoms and causes, actively looking for early warning signs and implementing contingency plans

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTCCR302 Install radio plant and equipment on	ICTTCCR3191A Install radio plant and equipment on	Updated to meet Standards for Training Packages	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
telecommunications structures	telecommunications structures		

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 ICTTCR302 Install radio plant and equipment on telecommunications structures

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Performance Evidence

Evidence of the ability to:

- install basic telecommunications radio plant and equipment according to job specifications and all work health and safety (WHS) legislation, regulations, standards and environmental requirements
- assist with testing and fault-finding basic telecommunications radio plant and equipment mounted on telecommunications structures
- use effective communications skills related to:
 - dogging
 - work associates
 - supervisors
 - team members
 - enterprise documentation.

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:

- outline antenna principles
- outline the features and operating requirements of rigging equipment
- discuss relevant regulations and typical issues and challenges that may occur on site
- explain rigging practices and systems in relation to telecommunications radio structures, and related licensing and regulatory issues
- discuss the main principles of:
 - electromagnetic radiation (EMR) safety practices
 - optical fibre cabling and equipment safety practices
 - working-at-heights safety practices

- summarise specific WHS requirements relating to the activity and site conditions, including:
 - basic survival skills
 - company WHS procedures
 - hypothermia
 - remote area first aid.

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 – telecommunications rigging installation field of work and include access to special purpose tools, equipment and materials.

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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