



Australian Government

Assessment Requirements for ICTRFN405 Install radio communications base station equipment

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.

Performance Evidence

Evidence of the ability to:

- assess the client and installation requirements
- ensure relevant regulations and standards will be applied
- install radio communications base station equipment
- perform distance to fault measurement on feedline
- perform return loss measurement on feedline
- document and complete installation report.

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:

- explain the following:
 - anti-static precautions
 - radio frequency (RF) radiation hazard awareness
 - network termination unit
 - radio transmitter system
 - radio receiver system
 - multicoupler
 - supervisory, control and data acquisition (SCADA) system inputs and outputs
- outline the operation and purpose of testing equipment
- interpret the meaning of various test results
- identify network element and system specifications

- outline the principles and performance testing and fault finding techniques of telecommunications networks
- describe the practices and procedures for installation of radio communications equipment for the following:
 - fibre optic connector cleaning techniques
 - computer software installations to various devices
- identify and describe the appropriate test equipment to undertake performance and fault-finding techniques in telecommunications networks including:
 - distance to fault measurement
 - return loss measurement
 - terminate data and voice and RF cable.

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 should be typical of those experienced in the telecommunications – radio frequency networks field of work and include access to:

- sites on which base station installation can be conducted
- tools and equipment required for installation
- technical specifications, organisational documentation and requirements for installation and testing.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet -

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