



Australian Government

Assessment Requirements for ICTRFN304 Construct and test a radio communications device

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:

- plan and prepare for construction of a radio communications device
- prepare a wiring diagram and component list
- construct a radio communications device
- test a radio communications device.

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 electrical symbols and circuit diagrams
- summarise the general principles of radio communications and radio propagation
- identify and outline the characteristics of:
 - radio communications components
 - device pinouts
 - part numbers
 - polarities
 - ratings
- summarise the operation and characteristics of:
 - amplifiers
 - demodulators
 - mixers
 - modulators
 - oscillators

- explain the principles of modulation.

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 where radio communications devices may be constructed and tested
- test instruments currently used in industry
- relevant regulatory and equipment documentation that impacts on work activities.

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>