



Australian Government

UEEEEC0046 Operate and maintain amateur radio communication stations

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to operate and maintain amateur radio communication stations.

It includes applying correct operating procedures, using safe working practices and testing techniques, dismantling and assembling apparatus, disconnecting and reconnecting components, and operating to the relevant industry standard.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Competency Field

Electronics and Communications and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to operate an amateur radio communication station

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and applied

- 1.2 WHS/OHS risk control measures and workplace procedures are followed in preparation for amateur radio activities
 - 1.3 Scope of operation of activity is identified in accordance with relevant industry standards
 - 1.4 Sources of materials required for the amateur radio activities are identified and utilised in accordance with manufacturer specifications and workplace procedures
 - 1.5 Interference with other services is recognised and maintained in accordance with operating practices and advice is sought from relevant person/s
 - 1.6 Resources, tools, apparatus and testing devices needed to carry out work are obtained and checked for correct operation and safety
- 2 Operate an amateur radio communication station**
 - 2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
 - 2.2 Need to test and measure equipment is determined in accordance with WHS/OHS and workplace procedures
 - 2.3 Circuits/apparatus are checked and isolated in accordance with WHS/OHS and workplace procedures
 - 2.4 Radio communications operating practices are demonstrated in accordance with workplace procedures and applicable radio spectrum regulations
 - 2.5 Amateur radio communication station is operated in accordance with relevant industry standards
 - 2.6 Methods for dealing with unplanned situations are selected on the basis of safety discussions with relevant person/s and/or specified work outcomes
 - 2.7 Set-up is carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy principles
- 3 Maintain an amateur radio communication station**
 - 3.1 WHS/OHS work completion risk control measures and procedures are followed
 - 3.2 Dismantled modules/sub-assemblies are tagged for

reassembly and stored to protect them against loss or damage

- 3.3 Apparatus is dismantled and assembled in accordance with manufacturer guidelines
- 3.4 Repairs are conducted without damage to other components, apparatus or circuits in accordance with workplace procedures
- 3.5 Repairs are carried out efficiently without unnecessary waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
- 3.6 Apparatus is assembled in an appropriate sequence with all modules/sub-assemblies and parts correctly placed, secured and connected in accordance with manufacturer guidelines and relevant industry standards
- 3.7 Repaired radio equipment is inspected, tested and returned to service to ensure operating parameters are in accordance with relevant industry standards and applicable radio spectrum regulations
- 3.8 Workplace procedures for referring unplanned events to relevant authorities are followed
- 3.9 Work and operating area is cleaned and made safe in accordance with workplace procedures

4 Identify and assemble amateur radio communication equipment

- 4.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
- 4.2 Items are identified for assembly
- 4.3 Item is assembled in accordance with workplace procedures and relevant engineering standards
- 4.4 Assembled unit is tested and operating parameters of the station are in accordance with workplace procedures, relevant industry standards and applicable radio spectrum regulations
- 4.5 Adjustments are made to equipment, as required, for optimise reception
- 4.6 Equipment is commissioned as constructed for on-air

performance

5 Complete work and maintain reports

- 5.1 WHS/OHS work completion risk control measures and procedures are followed
- 5.2 Worksite is cleaned and made safe in accordance with workplace procedures
- 5.3 Adjustment settings are documented and relevant person/s notified in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEB101A Operate and maintain amateur radio communication stations.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>