



Australian Government

UEEEEC0039 Install and test microwave antennae and waveguides

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 install and test microwave antennae and waveguides.

It includes preparing to install and test microwave antennae and waveguides, installing microwave antennae and waveguides, testing microwave antennae and waveguides, and reporting outcomes.

Permits may be required for some work environments, such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Prepare to install and test microwave antennae and waveguides**
 - 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for relevant work area are identified, obtained and applied
 - 1.2** Risk control measures are applied in accordance with workplace procedures prior to commencing work
 - 1.3** Risks/hazards are identified, assessed and reported to relevant person/s, and control measures implemented
 - 1.4** Nature and location of the work is obtained from relevant person/s to determine scope of work
 - 1.5** Instructions for coordinating work with others are obtained from relevant person/s and applied
 - 1.6** Materials required for the work are determined in accordance with workplace procedures
 - 1.7** Tools, equipment and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 2 Install microwave antennae and waveguides**
 - 2.1** Workplace risk control measures and procedures are applied
 - 2.2** Circuits/components are checked and isolated, as required, in accordance with WHS/OHS requirements and workplace procedures
 - 2.3** Antennas are installed in specified locations and within limitations imposed by regulations
 - 2.4** Hardware and accessories are installed straight and square in the required locations and within acceptable tolerances
 - 2.5** Cables and conductors are terminated at accessories in accordance with relevant industry standards, manufacturer instructions and job specifications
 - 2.6** Unplanned events are referred to relevant person/s in accordance with workplace procedures
 - 2.7** Installation is conducted efficiently, without waste of materials, damage to apparatus circuits or the surrounding environment applying sustainable energy practices

- 3 Test microwave antennae and waveguides and report**
- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
 - 3.2** Pre-commissioning adjustments are made to the installation and the system to optimise performance in accordance with system specifications
 - 3.3** Worksite is cleaned and made safe in accordance with workplace procedures
 - 3.4** Relevant person/s is notified of installation completion 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.

Installing, connecting and adjusting any microwave antennae and waveguides must include at least the following:

- antennas
- rectangular sections
- curved sections
- T sections
- joints and couplers

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH128A Install and test microwave antennae and waveguides.

Links

Companion Volume implementation guides are found in VETNet - -

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