



Australian Government

UEEEEC0002 Assemble and install reception antennae and signal distribution equipment

Release: 1

UEEEEC0002 Assemble and install reception antennae and signal distribution equipment

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 assemble and install reception antennae and signal distribution equipment.

It includes preparing to install and set up reception antennae and signal distribution systems, installing and setting up reception antennae and signal distribution systems and reporting.

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.

1 Prepare to install and set up reception antennae and

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

signal distribution systems	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 the scope of work
	1.5 Instructions for coordinating work with others is obtained from relevant person/s and applied
	1.6 Materials required for work are determined in accordance with workplace procedures
	1.7 Tools, equipment and testing devices required for work are obtained and checked for correct operation and safety
2 Install reception antennae and signal distribution systems	2.1 Workplace risk control measures and workplace procedures are applied
	2.2 Circuits/components are checked and isolated, as required, in accordance with WHS/OHS requirements and workplace procedures
	2.3 Optimum location for installation of antenna is determined from signal tests and limitations imposed by the customer and relevant regulations
	2.4 Accessories are installed straight and square in required locations and within acceptable tolerances
	2.5 Cables and conductors are terminated at accessories in accordance with manufacturer specifications and regulatory requirements
	2.6 Unplanned events are reported 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 Set up reception antennae	3.1 WHS/OHS work completion risk control measures and

and signal distribution systems and report

workplace procedures are followed

- 3.2** Adjustments are made to the antenna and the system to optimise reception at each outlet
- 3.3** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.4** Relevant person/s is notified of completion of installation work 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 setting up reception antennae and signal distribution systems must include at least the following:

- a reception antenna
- a signal distribution system

Systems must consist of at least the following:

- two outlets for two users

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH108A Assemble and install reception antennae and signal distribution equipment.

Links

Companion Volume implementation guides are found in VETNet - -

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

Assessment Requirements for UEEEC0002 Assemble and install reception antennae and signal distribution equipment

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- accurately placing and securing antennae and accessories
- adjusting for optimum reception at each outlet
- applying relevant risk identification, assessment, reporting and control requirements
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- coordinating work with relevant person/s
- correctly terminating cable and conductors
- dealing effectively with unplanned events
- identifying and accessing materials, tools, apparatus and testing devices
- isolating circuits/machines/systems
- reading and interpreting drawings of circuit arrangements and component locations.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- antenna assembly and installation, including:
 - antenna distribution systems
 - antenna testing, fault finding and repair
 - relevant standards, codes and regulations
 - satellite receivers
 - signal reception
 - transmission line types and characteristics
 - TV antenna types, operating characteristics and terminology
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation

processes

- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in suitable simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to assembling and erecting reception antennae and signal distribution equipment
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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