



**Australian Government**

# **UEEEL0004 Carry out basic repairs to electrical components and equipment**

**Release: 1**

# UEEEL0004 Carry out basic repairs to electrical components and 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 repair and/or replace mechanical and electrical components of electrical apparatus.

It includes working safely, following written and oral instructions and workplace procedures, basic testing and techniques for dismantling and assembling apparatus, and disconnecting and reconnecting components

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

## Competency Field

Electrical

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Prepare to repair electrical apparatus

### 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 and applied

- 1.2 Existing WHS/OHS risk control measures and workplace procedures in preparation for work are followed
  - 1.3 Nature of electrical components and equipment repair is obtained from documentation and work supervisor to determine the scope of work to be undertaken
  - 1.4 Advice is sought from the work supervisor to ensure the work is coordinated effectively with others
  - 1.5 Sources of materials required for the electrical components and equipment work are determined in accordance with workplace routines and procedures
  - 1.6 Tools, apparatus and testing devices needed to carry out work are obtained and checked for correct operation and safety
- 2 Repair electrical apparatus**
- 2.1 Existing WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
  - 2.2 Need to test or measure live electrical work is determined in accordance with WHS/OHS requirements and, as required, conducted within workplace safety procedures
  - 2.3 Circuits/apparatus are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
  - 2.4 Apparatus is dismantled in accordance with manufacturer guidelines and supervisor instructions
  - 2.5 Component parts are tagged during dismantling to ensure correct and efficient reassembly and are stored to protect against loss or damage
  - 2.6 Repairs are completed efficiently without damage to other components, electrical apparatus or circuits
  - 2.7 Apparatus is assembled in sequence with components parts placed, secured and connected in accordance with manufacturer guidelines and/or industry standard practices
  - 2.8 Referring unplanned events to supervisor for direction are followed in accordance with workplace procedures

- 3 Complete and report electrical repair work activities**
- 2.9** Repairs are carried out efficiently without unnecessary waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
  - 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
  - 3.2** Repaired electrical apparatus is prepared for inspection and testing by appropriate person/s in accordance with workplace procedures
  - 3.3** Work area is cleaned and made safe in accordance with workplace procedures
  - 3.4** Work supervisor is notified of repair work 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.

- Carrying out basic electrical apparatus repairs must include at least the following:
- two different electrical apparatus, in which three different types of components are faulty:
  - one of which requires disconnecting and reconnecting internal wiring to affect repairs

## Unit Mapping Information

This unit replaces and is equivalent to UEENEEG111A Carry out basic repairs to electrical components and equipment.

## Links

Companion Volume implementation guides are found in VETNet - -

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