



**Australian Government**

**UEEEEC0060 Repairs basic electronic  
apparatus faults by replacement of  
components**

**Release: 1**

# UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components

## 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 replace electronic components, cabling and sub-systems of electronic apparatus.

It includes safe working practices, testing, dismantling and assembling apparatus, using equipment and tools correctly (including soldering equipment) and disconnecting and reconnecting components to repair electronic apparatus faults.

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

Electronics and Communications

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### **1 Prepare to repair electronic 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 Hazards are identified, risks are assessed and control measures and workplace procedures are implemented
  - 1.3 Nature of the repair is obtained from relevant documentation or work supervisor to determine the scope of work to be undertaken
  - 1.4 Advice is sought from work supervisor to ensure work is coordinated effectively with others
  - 1.5 Materials required for work are obtained in accordance with workplace procedures
  - 1.6 Tools, apparatus, equipment and testing devices needed to carry out the work are obtained and checked for correct operation and safety in accordance with workplace procedures
- 2 Repair electronic apparatus**
- 2.1 WHS/OHS risk control measures and workplace procedures are followed
  - 2.2 Need to inspect, test or measure live work is determined and conducted in accordance with WHS/OHS workplace procedures and regulatory requirements
  - 2.3 Circuits/apparatus are checked as being isolated as required in accordance with WHS/OHS workplace procedures and regulatory requirements
  - 2.4 Apparatus is dismantled in accordance with manufacturer specifications and supervisor instructions
  - 2.5 Apparatus component parts are correctly tagged during dismantling to ensure correct and efficient reassembly and stored to protect against loss or damage in accordance with workplace procedures
  - 2.6 Repairs are conducted using the correct tools/soldering equipment and without damage to other components, sub-systems, apparatus or circuits in accordance with workplace procedures, industry standards and regulatory requirements
  - 2.7 Apparatus is re-assembled in correct sequence, with all components and parts replaced, secured and connected in accordance with manufacturer specifications, industry standards and workplace procedures
  - 2.8 Unplanned events are referred to supervisor for

directions in accordance with workplace procedures

- 2.9** Apparatus repairs are completed without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices

### **3 Complete and report repair work activities**

- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
- 3.2** Repaired apparatus is inspected, prepared in accordance with workplace procedures and forwarded to relevant person/s for testing
- 3.3** Work area is cleaned and made safe in accordance with workplace procedures
- 3.4** Work supervisor is notified of the completion of the repair 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.

Repairing basic electronic apparatus faults must be demonstrated in relation to:

- carrying out repair on electronic apparatus, limited to replacement or repair of components, including sub-systems in which the fault has been previously established
- a cable to be correctly terminated using a solderless termination technique
- soldering and de-soldering

Repairs must include at least two of the following:

## **Unit Mapping Information**

This unit replaces and is equivalent to UEENEEH102A Repairs basic electronic apparatus faults by replacement of components.

## **Links**

Companion Volume implementation guides are found in VETNet - -

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