



Australian Government

UEEEEC0029 Fault find and repair electronic apparatus

Release: 1

UEEEEC0029 Fault find and repair electronic apparatus

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 fault find and repair electronic apparatus. It includes preparing to find and repair faults, finding faults, and completing and reporting on repair activities.

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

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Prepare to find and repair faults	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** Nature of the fault is obtained from documentation and/or from relevant person/s to determine scope of work
- 1.4** Instructions for coordinating work with others are obtained from relevant person/s and applied
- 1.5** Materials required for the work are determined in accordance with workplace procedures
- 1.6** Tools, equipment and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety

2 Find faults

- 2.1** Workplace risk control measures and procedures are applied
- 2.2** Need to test and measure live work is determined in accordance with WHS/OHS requirements and workplace procedures
- 2.3** Apparatus is checked and isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.4** Fault finding is undertaken methodically applying principles of data circuits using measured and calculated values of apparatus parameters
- 2.5** Apparatus components are dismantled, where necessary, and parts stored to protect against loss or damage
- 2.6** Faulty components are rechecked and their fault status confirmed
- 2.7** Effectiveness of the repair is tested in accordance with workplace procedures
- 2.8** Apparatus is reassembled, tested and prepared for return to customer
- 2.9** Unplanned situations are dealt with safely and with the approval of relevant person/s
- 2.10** Fault finding is conducted efficiently without waste of materials, damage to apparatus, the surrounding environment or services applying sustainable energy practices

3 Complete and report repair activities

- 3.1** WHS/OHS work completion risk control measures and workplace procedures are followed
- 3.2** Work area is cleaned and made safe in accordance with workplace procedures
- 3.3** Justification is provided for repairs to apparatus in the required format
- 3.4** Work completion reporting is completed 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.

Finding and repairing faults in electronic apparatus must include at least the following:

- two different faults in two different electronic apparatus

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH118A Fault find and repair electronic apparatus.

Links

Companion Volume implementation guides are found in VETNet - -

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