



Australian Government

UEEEEC0056 Repair predictable faults in audio components

Release: 1

UEEEEC0056 Repair predictable faults in audio 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 repair predictable faults in audio components.

It includes preparing to repair audio components, finding and repairing 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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components

UEEEEC0075 Troubleshoot single phase input d.c power supplies

UEEEEC0069 Troubleshoot digital sub-systems

UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus

UEEEEC0028 Fault find and repair complex power supplies

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 repair audio components

- 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 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 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 and repair 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, as required, in accordance with WHS/OHS requirements and workplace procedures
- 2.4** Fault finding is approached methodically applying principles of audio components and circuits using measured and calculated values of apparatus parameters and/or with reference to manufacturer service manuals
- 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** Repairs are made in accordance with manufacturer instructions and approval of relevant person/s

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| | 2.8 | Apparatus is reassembled and tested for safety and functionality in preparation for return to the customer |
| | 2.9 | Unplanned situations are dealt with safely and with the approval of relevant person/s |
| | 2.10 | Repairs are 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 in the required format for repairs to apparatus |
| | 3.4 | 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.

Repairing faults in audio components must include at least the following:

- two different audio components each with any two predictable faults

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH124A Repair predictable faults in audio components.

Links

Companion Volume implementation guides are found in VETNet - -

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