



Australian Government

**UEEEEC0006 Carry out repairs of
predictable faults in video and audio
replay/recording apparatus**

Release: 1

UEEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording 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 carry out repairs of predictable faults in video and audio replay/recording apparatus.

It includes preparing to repair replay/recording apparatus, finding and repairing faults, 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 replay/recording apparatus

- 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 determined from documentation or 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, testing devices and service manual 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 and workplace procedures
- 2.3** Apparatus is checked and isolated, where necessary, in accordance with WHS/OHS requirements and workplace procedures
- 2.4** Fault finding is undertaken methodically applying replay/recording apparatus and circuit principles 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

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| | 2.7 | Repairs are undertaken in accordance with manufacturer instructions and approval of relevant person/s |
| | 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 | 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.

Carrying out repairs of predictable faults in video replay/recording apparatus must include the following:

- at least two predictable faults in two different video replay/recording apparatus

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH117A Carry out repairs of predictable faults in

video and audio replay/recording apparatus.

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 UEEEC0006 Carry out repairs of predictable faults in video and audio replay/recording apparatus

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:

- 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
- isolating circuits/machines/systems
- coordinating work with relevant person/s
- dealing effectively with unplanned events
- determining live testing/measurement requirements
- determining scope of repair work
- identifying and accessing materials, tools, apparatus and testing devices
- applying methodical fault-finding techniques
- efficiently finding faults
- providing justification for the repairs
- replacing components without damage.

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:

- audio and video recording and replaying apparatus, including:
 - audio reproduction:
 - electronic components
 - speaker fundamentals
 - audio/video control equipment
 - audio/video recording and replay components repair basics
 - compact disk (CD) players
 - digital audio

- digital versatile disc (DVD) and CD
- DVD processors
- electronic communications systems
- relevant industry standards, codes and regulations
- sound reproduction fundamentals
- technical manuals and catalogues
- 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 carrying out repairs of predictable faults in audio and video replay/recording apparatus
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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