



Australian Government

UEERA0087 Service electrical heating appliances

Release: 1

UEERA0087 Service electrical heating appliances

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 service an electrical heating appliance.

Competency in this unit requires the ability to work safely, apply knowledge of electric heating appliances, test heating appliance functions, locate and rectify faults and defective components, and complete all required service documentation.

Individuals will typically work independently to service and repair electric heating appliances.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training, such as an Australian Apprenticeship, is required.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Competency Field

Refrigeration and air-conditioning

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 service electrical heating appliance

- 1.1** WHS/OHS hazards, risk control methods, relevant standards, codes and legislation are obtained and applied in accordance with workplace procedures
- 1.2** Extent of work to be undertaken is determined from service and fault requests and/or discussions with supervisor/appropriate person/s in accordance with workplace procedures
- 1.3** Advice is sought, as required, from supervisor to ensure work is coordinated with others
- 1.4** Sources of materials/parts required for work are identified in accordance with workplace procedures
- 1.5** Tools, equipment and testing devices to locate faults are obtained in accordance with workplace procedures and are checked for operational safety

2 Service electrical heating appliance

- 2.1** Need to test or measure live work is determined in accordance with workplace procedures and WHS/OHS requirements
- 2.2** Appliance is checked and isolated in accordance with workplace procedures and WHS/OHS requirements
- 2.3** Safety hazards resulting from defect or fault are identified and documented, and risk control measures implemented in accordance with workplace procedures and in consultation with appropriate person/s
- 2.4** Appliance is tested and components are inspected for wear or defects in accordance with workplace procedures and manufacturer specifications
- 2.5** Appliance faults and their cause are identified using measured and calculated values of appliance parameters in accordance with workplace procedures
- 2.6** Appliance is dismantled, where necessary, and parts safely stored to protect them against loss or damage in accordance with workplace procedures
- 2.7** Defective, worn or faulty appliance components are rechecked and their status is confirmed

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| | 2.8 | Replacement parts to rectify defects/faults are obtained in accordance with workplace procedures |
| | 2.9 | Effectiveness of repair work is tested in accordance with workplace procedures |
| | 2.10 | Apparatus is reassembled, given a final test and prepared for return to service in accordance with workplace procedures |
| | 2.11 | Unexpected situations are resolved in accordance with workplace procedures, safety guidelines and with the approval of an authorised person/supervisor |
| | 2.12 | Servicing activities are completed without damage to apparatus, circuits, the surrounding environment and/or services using relevant sustainable energy practices in accordance with workplace procedures |
| 3 | Complete and report fault-finding and repair activities | |
| | 3.1 | Work area is cleaned and made safe in accordance with workplace procedures |
| | 3.2 | Service report is completed and verified by an appropriate person/supervisor 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.

Servicing electrical heating appliances must include at least the following:

- two appliances:
 - electric stoves
 - ovens
 - hot plates
 - ranges
 - electrical space heaters

- hot water systems
- three defects/faults:
 - heater not operating
 - fan not working
 - timer not working correctly
 - electric shock received from appliance cabinet

Unit Mapping Information

This unit replaces and is equivalent to UEENEEJ157A Service electrical heating appliances.

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 UEERA0087 Service electrical heating appliances

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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe working practices
 - identifying hazards
 - using risk control measures
- completing and reporting fault-finding and repair activities
- implementing legislation, industry standards, codes of practice and regulations
- preparing to service electrical heating appliances
- servicing electrical heating appliance, including:
 - completing service report
 - dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
 - determining nature of work from service request
 - finding faults
 - identifying defective components affecting appliance
 - rectifying defects/faults
 - testing appliance functions
- using manufacturer specifications and manuals.

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 includes knowledge of:

- service electrical heating appliances, including:
 - faulty components repair or replacement methods
 - heating circuits and controls

- heating principles and applications encompassing resistance, induction and microwave
- manufacturer parts catalogues and service reports
- types of heating appliances, their operating principles and characteristics, including ovens, cook tops, space heaters but excluding microwave ovens
- typical faults
- relevant legislation, industry standards, codes of practice and regulations
- relevant manufacturer specifications
- relevant risk mitigation processes, including:
 - potential hazards
 - risk control measures
 - safe working practices
- 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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in 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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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