



Australian Government

UEERA0089 Service refrigeration appliances

Release: 1

UEERA0089 Service refrigeration 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 refrigeration appliances operating on flammable and non-flammable refrigerants.

It includes working safely, locating and rectifying refrigeration appliance faults and defective components, and completing required service documentation.

Individuals will typically work independently to service and repair domestic refrigeration appliances.

To undertake this unit, the learner must have a Trainee Refrigerant Handling Licence as it includes work on refrigeration and air conditioning equipment that carries the risk of a fluorocarbon refrigerant being emitted.

The skills and knowledge described in this unit may require a national Refrigerant Handling Licence as it includes work on refrigeration and air conditioning equipment that carries the risk of a fluorocarbon refrigerant being emitted while decanting the refrigerant or manufacturing, installing, commissioning, servicing, maintaining or decommissioning refrigeration and air conditioning equipment.

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

Elements describe the essential outcomes.

1 Prepare to service refrigerated appliance

2 Service refrigerated appliance

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 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 completed 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 and 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 checked for operational safety
- 2.1** Need to test or measure live electrical work is determined in accordance with workplace procedures and WHS/OHS requirements
- 2.2** Appliance is checked as being isolated, where necessary, 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 are implemented in accordance with workplace procedures and in consultation with appropriate person/s
- 2.4** Appliances are tested and components are inspected for wear or defects in accordance with workplace procedures, manufacturer specifications and industry codes of practice

- 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 are 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
 - 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 Appliance 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 of refrigerated appliance is 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 refrigerated appliances must include at least the following:
- appliances using flammable and non-flammable refrigerants
 - two types of appliances:
 - single door refrigerators
 - two door refrigerators or freezers
 - single door freezers either cyclic defrost or frost free
 - four defects/faults:
 - higher energy use than previously experienced
 - not cold enough
 - appliance ices up
 - appliance light not working
 - electric shock received from appliance cabinet

Unit Mapping Information

This unit replaces and is equivalent to UEENEEJ155A Service refrigeration appliances.

Links

Companion Volume implementation guides are found in VETNet - -

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