



Australian Government

UEERA0062 Recover and charge refrigerants

Release: 1

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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 recover, pressure test, evacuate and charge refrigerants from refrigeration and air conditioning systems.

It includes recovering refrigerants, pressure testing, evacuating, charging refrigerants into refrigeration systems and completing documentation.

The skills and knowledge in this unit will be applied by refrigeration and air conditioning technicians during the recovery and charging of refrigerants on refrigeration and air conditioning systems.

To undertake this unit, the learner must have a current 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 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.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to refrigeration, air conditioning and 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 recover and charge refrigerant

- 1.1 WHS/OHS hazards, risk control methods, relevant industry standards, codes of practice and legislation are obtained and applied in accordance with workplace procedures
- 1.2 Work details are determined from documentation and/or supervisor to establish scope of work to be completed in accordance with workplace procedures
- 1.3 Work tasks are sequenced in accordance with job schedule and workplace procedures
- 1.4 Supervisor is consulted to ensure work is coordinated with others in accordance with workplace procedures
- 1.5 Tools, equipment and testing devices to complete the work are obtained and checked for operational safety in accordance with workplace procedures

2 Recover and charge refrigerant

- 2.1 Refrigerant is removed from a functional refrigeration and/or air conditioning system safely, using appropriate recovery and/or reclaim equipment, and is placed into labelled containers in accordance with relevant codes of practice, regulatory requirements and industry standards
- 2.2 Pressure testing is conducted in accordance with relevant codes and standards at a pressure compatible with the type of refrigerant employed in the system and without damage to components in accordance with workplace procedures and industry standards
- 2.3 Leaks are located and rectified using testing methods appropriate to functional refrigeration and/or air conditioning system under test in accordance with relevant codes of practice, regulatory requirements and industry standards
- 2.4 Functional refrigeration and/or air conditioning system is evacuated to required level and cleaned of all moisture and other contaminants in accordance with relevant codes of practice, regulatory requirements and industry standards

- 2.5 Functional refrigeration and/or air conditioning system is charged with appropriate refrigerant in accordance with relevant standards, codes of practice, regulatory requirements and manufacturer specifications
 - 2.6 Problematic situations are resolved in accordance with workplace procedures
 - 2.7 Functional refrigeration and/or air conditioning system is pressure and leak tested, evacuated and charged without waste of materials, damage to apparatus, the surrounding environment and/or services using relevant sustainable energy practices in accordance with workplace procedures and industry standards
- 3 Complete and report refrigerant recovery and charging**
- 3.1 WHS/OHS work completion risk control measures are applied in accordance with workplace procedures
 - 3.2 Worksite and equipment are cleaned and made safe in accordance with workplace procedures
 - 3.3 Recovered and/or reclaimed refrigerant and lubricant are dealt with in accordance with relevant industry standards, codes of practice and regulatory requirements
 - 3.4 Completion of work is documented in an auditable logbook and supervisor 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

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet - -

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