



Australian Government

Assessment Requirements for AURETU102 Recover vehicle refrigerants

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- recover and identify vehicle refrigerants from three different vehicles or machinery, in which the work must involve one of the following refrigerant types:
 - synthetic greenhouse and ozone depleting (SGOD) refrigerant
 - hydrocarbon (HC) refrigerant
 - hydrofluorocarbon (HFC) refrigerant
 - a mixture of SGOD and HC refrigerant.

In the course of the above work, the candidate must use the following equipment:

- refrigerant hose and coupler
- refrigerant recovery unit
- refrigerant scales
- refrigerant identifier or analyser
- designated and appropriately labelled recovery cylinders.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to recover vehicle refrigerants, including:
 - Australian automotive code of practice: Control of refrigerant gases during manufacture, installation, servicing or de-commissioning of motor vehicle air conditioners
- workplace procedures required to recover vehicle refrigerants, including:
 - recovering vehicles and refrigerants

- establishing the serviceability of tools and equipment
- documentation procedures
- housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - safe shut down and disconnecting recovery equipment
 - safe storage of refrigerant
 - identification, tagging and isolation of faulty equipment
 - safe disposal of materials
 - recycling procedures
- workplace health and safety (WHS) requirements relating to safety requirements for recovering vehicle refrigerants, including procedures for:
 - managing risk of frostbite while working with refrigerants at boiling point
 - working with system lubricants, including carcinogenic oils
 - handling flammable refrigerants
 - selecting and using personal protective equipment (PPE)
 - identifying firefighting equipment
 - identifying refrigerant and oil type, including:
 - service decal sticker
 - testing refrigerant
 - types and location of service ports
 - handling, storing and transporting refrigerant cylinders and recovery cylinders, including:
 - pressure ratings
 - pressure relief devices
 - outlet connection type
- environmental requirements associated with refrigerant recovery and refrigerant waste disposal, including procedures for:
 - preventing loss of refrigerant to the atmosphere
 - storing and transporting refrigerants
- key features of various types of refrigerants and oils found in automotive vehicle and equipment HVAC systems, including:
 - synthetic SGOD refrigerants, such as:
 - chlorofluorocarbons (CFC)
 - hydrofluorocarbons (HFC)
 - HC refrigerants
 - mineral and synthetic refrigerant oils
- key features of refrigerant recovery equipment, including:
 - manifold and gauge set
 - recovery unit

- types of recovery cylinders
- refrigerant analyser
- vacuum recovery equipment and scales
- procedures for recovering automotive refrigerant, including:
 - testing refrigerant to determine its type
 - connecting manifold and gauge set and recovery unit, including types and location of service ports
 - identifying recovery cylinder suitable to the refrigerant
 - operating recovery unit, including weighing recovery cylinder before and after recovery
 - disconnecting and storing recovery unit and cylinder
- work completion procedures for recovering vehicle refrigerant, including:
 - work area clean-up and maintenance requirements
 - workplace regulatory documentation to be completed
- procedures for completing ARCTick decal sticker, including:
 - name of service organisation
 - ARCTick business authority number
 - quantity of refrigerant added
 - refrigerant and oil type
 - service date
 - technician name and licence number.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to vehicle refrigerant that they have recovered from HVAC systems, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive workplace, parts recycling yard or simulated workplace
- workplace instructions
- PPE and firefighting equipment required when recovering vehicle refrigerants
- Australian automotive code of practice: Control of refrigerant gases during manufacture, installation, servicing or de-commissioning of motor vehicle air conditioners
- three different vehicles or machinery with refrigerant to be recovered
- refrigerant recovery equipment designed for safe operation, including:
 - hose and vehicle couplings

- refrigerant scales
- refrigerant identifier or analyser
- vehicle refrigerant designated and labelled recovery cylinders
- appropriate hand tools for refrigerant recovery.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards; and hold an Australian Refrigerant Council (ARC) Refrigerant Handling licence.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>