



Australian Government

Assessment Requirements for AURETU002 Recover vehicle refrigerants

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in the unit's elements, performance criteria, range of conditions and foundation skills:

- recover 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
 - a mixture of SGOD and HC refrigerant.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to safety requirements for recovering vehicle refrigerants, including procedures for:
 - working with refrigerants at boiling point given risk of frostbite
 - working with system lubricants, including carcinogenic oils
 - handling flammable refrigerants
 - selecting and using personal protective equipment (PPE)
 - identifying firefighting equipment
- environmental requirements associated with refrigerant recovery and refrigerant waste disposal, including procedures for:
 - preventing loss of refrigerant to the atmosphere
 - storing and transporting refrigerants
- Australian automotive code of practice: Control of refrigerant gases during manufacture, installation, servicing or de-commissioning of motor vehicle air conditioners

- key features of various types of refrigerants and oils found in automotive vehicle and equipment HVAC systems, including:
 - synthetic SGOD refrigerants, including:
 - chlorofluorocarbons (CFC)
 - hydrofluorocarbons (HCFC)
 - HC refrigerants
 - mineral and synthetic refrigerant oils
- types, application and operation of refrigerant recovery equipment, including:
 - manifold and gauge set
 - recovery unit
 - types of recovery cylinders
- 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 appropriate 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
- completing workplace documentation, including Australian Refrigeration Council accredited (ARCTick) service decal sticker.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements and hold an Australian Refrigerant Council (ARC) Refrigerant Handling licence.

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.

Links

Companion Volume implementation guides are found in VETNet -

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

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