Title	Service and rectify faults in an automotive air conditioning system		
Level	4	Credits	7

Purpose	This unit standard is intended for people in the automotive repair industry. People credited with this unit standard are able to service and rectify faults in an automotive air conditioning system.	
Classification	Motor Industry > Automotive Heating, Ventilation, and Air	

Available grade	Achieved

Conditioning

Guidance Information

- It is recommended that people hold credit for Unit 24443, *Prepare to test, test and diagnose faults in an automotive air conditioning system,* Unit 24447, *Recover refrigerant from, and evacuate and charge an automotive air conditioning system,* and Unit 24448, *Demonstrate knowledge of servicing automotive air conditioning systems* before being assessed against this unit standard.
- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- Performance of the outcomes of this unit standard must comply with the following: Health and Safety at Work Act 2015; Health and Safety at Work (Hazardous Substances) Regulations 2017; Ozone Layer Protection Act 1996; Australia and New Zealand Refrigerant handling code of practice 2007 https://www.irhace.org.nz/publications-2/code-of-practice/.
- 4 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Definitions

 Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include company policies and procedures, work instructions, product quality specifications and legislative requirements.

Service information refers to technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Suitable tools and equipment refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.
- Should the air conditioning system require recovering, evacuating and/or recharging of refrigerant, this work must be completed by the holder of an Approved Filler Certificate issued under the under the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Outcomes and performance criteria

Outcome 1

Service an automotive air conditioning system.

Performance criteria

- 1.1 Refrigerant is recovered from the system, and stored.
- 1.2 The system is evacuated and then charged to the specified level with a refrigerant and compressor oil.
- 1.3 The need to replace the filter-drier is determined.
- 1.4 The filter-drier is replaced.
- 1.5 The cabin pollen filter is replaced.
- 1.6 A report to the vehicle operator is prepared that specifies the servicing requirements for the air conditioning system.

Outcome 2

Rectify faults in an automotive air conditioning system.

Performance criteria

- 2.1 Joints and connections are repaired and assembled with recommended oil to eliminate any leaks.
- 2.2 Faulty refrigeration components are repaired or replaced to restore full serviceability of the system.
- 2.3 Faulty electrical wiring and components are repaired or replaced to restore full serviceability of the system.

Replacement information	This unit standard and unit standard 24443 replaced unit standard 881.
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Status information and last date for assessment for superseded versions

Process	Version	Date Last Date for Assessmen	
Registration	1	25 January 2008	31 December 2022
Review	2	29 April 2021	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.