

Title	Repair and test heavy vehicle or equipment compressors, and adjust their controls		
Level	3	Credits	4

Purpose	<p>This unit standard is intended for people in the automotive repair industry.</p> <p>People credited with this unit standard are able to repair heavy vehicle or equipment compressors, and test compressors and adjust their controls.</p>
----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Classification	Motor Industry > Automotive Pneumatics
-----------------------	----------------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 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;
Vehicle Inspection Requirements Manual (VIRM) In-service Certification.
- 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.
- Pneumatic equipment used on road transport vehicle air braking systems must be tested and operate to Certificate of Fitness requirements.

- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Repair heavy vehicle or equipment compressors.

Performance criteria

- 1.1 The compressor is cleaned externally. Oil, air, and any cooling lines are disconnected and covered, and the compressor is removed from the engine.
- 1.2 The compressor is dismantled, cleaned, and components are checked for wear and damage, and assessed for further service.
- 1.3 Parts unsuitable for further service are replaced with approved replacement parts, and the compressor is reassembled.
- 1.4 The compressor unloader valve is checked for operation, worn and damaged parts are replaced, and/or faults are rectified.
- 1.5 The unloader valve and air inlet strainer are installed in the circuit.
- 1.6 Air drier and wet tank are checked, and any faults are rectified.

Outcome 2

Test compressors and adjust their controls.

Performance criteria

- 2.1 The engine is started, and the compressor checked for oil leaks, air leaks, and coolant leaks, and any faults found are rectified.
- 2.2 The compressor, governor, and unloader are tested and adjusted to stop and restart the pumping action at the required system pressures.
- 2.3 The performance of the compressor is tested in accordance with manufacturer test procedures and where this differs from Certificate of Fitness requirements, the higher standard is used, and the results are noted.

Planned review date	31 December 2025
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 1994	31 December 2022
Review	2	21 February 1999	31 December 2022
Review	3	21 September 2007	31 December 2022
Review	4	29 April 2021	N/A

Consent and Moderation Requirements (CMR) reference

0014

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.