

Title	Perform minor servicing tasks on a petrol fuel system		
Level	2	Credits	2

Purpose	People credited with this unit standard are able to; check fuel system for leaks and blockage and rectify faults; remove and replace a fuel element or filter; and remove and replace injectors on an electronic fuel injection (EFI) system.
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Classification	Motor Industry > Automotive Fuel Systems and Exhaust
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe work 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.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard may include:
 - Health and Safety at Work Act 2015;
 - Land Transport Rule: Vehicle Exhaust Emissions 2007;
and any subsequent amendments and replacements.
- 3 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 information such as 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 work practices.

Outcomes and performance criteria

Outcome 1

Check fuel system for leaks and blockage and rectify faults.

Performance criteria

1.1 Visual inspection is carried out with the system under pressure, and leaks are identified, and reported.

Range may include – joints, gaskets, perished or damaged hoses, corroded or damaged pipes, petrol tank, security of pipes and hoses.

1.2 Fuel pressure is relieved prior to any removal and replacement of parts.

1.3 Fuel leaks are rectified.

1.4 Fuel pipes and hose are checked for blockage and any blockage cleared.

1.5 Fuel system components are checked for security, and defects rectified.

Range may include – hose, pipes, petrol tank.

Outcome 2

Remove and replace a fuel element or fuel filter.

Performance criteria

2.1 The pressure is relieved and the fuel filter element or fuel filter is removed and waste fuel is disposed of.

2.2 The fuel element or fuel filter is checked for contamination.

2.3 A new fuel element or fuel filter and gasket are selected, fitted, and tightened.

Outcome 3

Remove and replace injectors on an EFI system.

Performance criteria

3.1 Fuel pressure is relieved prior to any removal and replacement of parts.

3.2 The injectors are disconnected and removed.

3.3 Replacement or original injectors are installed and connected.

Replacement information	This unit standard replaced unit standard 24234.
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Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 April 2016	31 December 2023
Review	2	24 March 2022	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.