

<b>Title</b>	<b>Test and repair diesel fuel injectors</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to test and repair diesel fuel injectors.
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<b>Classification</b>	Motor Industry > Automotive Fuel Systems and Exhaust
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 It is recommended that people hold credit for Unit 24195, *Demonstrate knowledge of diesel fuel injectors* before being assessed against this unit standard.
- 2 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.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to – the current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 4 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* may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

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### Outcomes and performance criteria

#### Outcome 1

Test and repair diesel fuel injectors.

Range mechanical, common rail, unit, twin-spring.

#### Performance criteria

- 1.1 Injectors are mounted and dismantled in a stripping jig.

- 1.2 All parts are cleaned to enable an inspection to be carried out.
- 1.3 A condition report is completed.
- Range inspection of parts, identifying and recording faults, recommending repairs and replacement of parts.
- 1.4 Parts are repaired or replaced as required.
- 1.5 Injectors are reassembled.
- 1.6 Injectors are tested and calibrated.
- Range opening pressures, spray pattern, leakage, chatter group identification.
- 1.7 Injectors are removed from the test bench with fuel inlets sealed.
- 1.8 Injectors are stored correctly.

<b>Replacement information</b>	This unit standard replaced unit standard 15403.
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<b>Planned review date</b>	31 December 2023
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 August 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.