

<b>Title</b>	<b>Demonstrate knowledge of automotive lubricants and sealants</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	This theory-based unit standard is for people who wish to enter or are employed in the motor industry. People credited with this unit standard are able to demonstrate knowledge of automotive lubricants, lubrication systems, and sealants.
----------------	---

<b>Classification</b>	Motor Industry > Automotive Preventive Maintenance
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

---

### Explanatory notes

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, service information, company and legislative requirements.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of including updated amendments to, and replacements of – Health and Safety at Work Act 2015.
- 3 Definitions  
*Company requirements* refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications and legislative requirements.  
*Service information* may include but is not limited to – technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This may be accessed from the manufacturer.

---

### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of automotive lubricants and lubrication systems.

#### Evidence requirements

- 1.1 Main functions of lubricants are identified.
- Range may include but is not limited to – lubricating, cooling, preventing corrosion, cleaning, sealing.
- 1.2 Internationally accepted methods of grading and classifying lubricants are described.
- Range oils and greases; may include but is not limited to – oils by viscosity, API classifications, gear oil classifications, greases by base element, additives by application.
- 1.3 Main functions of lubrication systems are identified.
- Range may include but is not limited to – reducing friction and wear, transferring heat, cooling, cleaning, reducing power loss, absorbing shocks between moving parts, quieting operation, increasing life.

**Outcome 2**

Demonstrate knowledge of sealants.

**Evidence requirements**

- 2.1 Main functions and properties of sealants are described.
- Range may include but is not limited to properties relating to – the substance that is to be contained, the materials that the sealant must adhere to, flexibility necessary.
- 2.2 Types of sealants used are described.
- Range includes but is not limited to two of – silicon, shellac, butyl.
- 2.3 Types of gasket used are described.
- Range includes but is not limited to four of – cork, fibre, nylon, synthetic rubber, corrugated sheet.

---

<b>Planned review date</b>	31 December 2021
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 July 2005	31 December 2018
Rollover and Revision	2	26 November 2007	31 December 2018
Review	3	21 April 2016	N/A

**Consent and Moderation Requirements (CMR) reference**

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**Comments on this unit standard**

Please contact the 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.