

<b>Title</b>	<b>Remove and fit a light vehicle engine cam belt</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard is intended for people in the automotive repair industry.</p> <p>People credited with this unit standard are able to: remove a cam belt from a light vehicle engine; and fit a cam belt to a light vehicle engine.</p>
----------------	--

<b>Classification</b>	Motor Industry > Engines
-----------------------	--------------------------

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

---

### Guidance Information

- 1 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.
- 2 Performance of the outcomes of this unit standard must comply with the following: Health and Safety at Work Act 2015.
- 3 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.
- 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.

*Light vehicle* refers to classes MA, MB, MC, MD, MD1, MD2 and NA as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>.

*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.

- 5 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

Remove a cam belt from a light vehicle engine.

#### Performance criteria

- 1.1 Engine components are dismantled.
- 1.2 Care is taken during disassembly to note and preserve any evidence that could help in diagnosing the causes of faults, and to tabulate the parts for easy identification.
- 1.3 Engine components are stored in parts trays to prevent loss and damage.
- 1.4 The cam belt is removed from the engine.
- 1.5 The engine is protected against the disturbance of components that may alter the engine timing setting.

### Outcome 2

Fit a cam belt to a light vehicle engine.

#### Performance criteria

- 2.1 Engine components are prepared and aligned to enable the belt to be fitted without damage, and without time delay due to missing and damaged parts.
- 2.2 Replacement components are obtained to enable the belt to be fitted.
- 2.3 The engine is reassembled.
- 2.4 Adjustments are carried out.  
Range torque settings.
- 2.5 The engine is tested to ensure it functions.
- 2.6 Ignition timing is checked.

---

<b>Planned review date</b>	31 December 2025
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	23 February 1999	31 December 2022
Revision	2	16 April 2003	31 December 2022
Review	3	25 January 2008	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.