

<b>Title</b>	<b>Carry out general service checks on systems and components of a motorcycle, and check a motorcycle for serviceability</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This unit standard is intended for people in the motorcycle repair industry.</p> <p>People credited with this unit standard are able to carry out a service check on systems and components of a motorcycle and check a motorcycle for serviceability.</p>
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<b>Classification</b>	Motor Industry > Automotive Preventive Maintenance
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Class 6 driver licence.
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### 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;  
Land Transport Rule: Vehicle Repair 1998;  
Land Transport Rule: Vehicle Standards Compliance 2002;  
The Official New Zealand Road Code.
- 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.

- 5 Assessment against this standard includes any make of motorcycle or scooter using the relevant manufacturer service checks and manuals.
- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

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## Outcomes and performance criteria

### Outcome 1

Carry out a service check on systems and components of a motorcycle.

### Performance criteria

- 1.1 The level and extent of service required is determined from manufacturer service schedules.
- 1.2 Precautions when cleaning a motorcycle are observed.  
  
Range include but are not limited to – water blasting exposed bearings, seals, electrical and electronic components, relubing components if protective films are removed.
- 1.3 All lubricating requirements are completed using lubricants and components.
- 1.4 The cooling system is checked for serviceability and faulty components found are replaced.  
  
Range water cooled – coolant level, anti-freeze and inhibitor strength, radiator and shielding, hoses, pipes and joints, fan;  
air cooled – ducting and guards, blockages and fins cleared.
- 1.5 The fuel system is checked for serviceability and faulty components found are repaired or replaced.  
  
Range may include but is not limited to – quality and longevity of the fuel, contamination, two stroke pre-mix or injection, visual inspection, carburettor settings, cable adjustments.
- 1.6 Air filter, air intake, and exhaust system components are cleaned and lubricated.
- 1.7 Exhaust system components are checked for security and damage, and any defects are rectified by repair or replacement.

- 1.8 Brake system is checked.  
Range may include but is not limited to – fluid levels, brake assemblies, brake pads, adjustments.
- 1.9 Valve clearances are checked and adjusted.
- 1.10 Engine idle speed is checked and adjusted.
- 1.11 Chain and drive are checked, lubricated, and adjusted.
- 1.12 Clutch and throttle cable is checked and adjusted.
- 1.13 Electrical system is checked and adjusted.  
Range ignition, lighting, battery.
- 1.14 Frame components are checked, adjusted, and tightened.  
Range may include but is not limited to – fork bearings and seals, bolts torqued, suspension adjustments, shock absorbers, engine mounts, all fasteners, exhaust, tyres, frame alignment.

## Outcome 2

Check a motorcycle for serviceability.

### Performance criteria

- 2.1 The engine is started and run until its normal operating temperature is reached.
- 2.2 The engine is checked for operating faults.  
Range may include but is not limited to – fuel leaks, coolant leaks, coolant temperature, air leaks and pressure, oil leaks, noise level.
- 2.3 The motorcycle is road or field tested for operating faults, and any faults found are recorded and reported to the supervisor.
- 2.4 A visual inspection is carried out on the motorcycle, and any faults or damage found are recorded and reported to the supervisor.
- 2.5 Service check items are completed in accordance with machine's service record book.
- 2.6 The service report is completed and forwarded to the supervisor.

<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2022
Review	2	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.