

Title	Rectify faults in a motorcycle clutch		
Level	3	Credits	2

Purpose	This unit standard is for people in the motorcycle repair industry. People credited with this unit standard are able to: check a motorcycle clutch operation; dismantle and inspect a motorcycle clutch, and repair or replace parts; and reassemble and adjust the clutch.
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Classification	Motor Industry > Automotive Transmission Systems
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Available grade	Achieved
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Prerequisites	Class 6 driver licence.
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Guidance Information

- Legislation and publications relevant to this unit standard include but are not limited to – Health and Safety in Employment Act 1992; Land Transport Rule: Vehicle Repair 1998, Rule 34001; *The Official New Zealand Road Code*, Land Transport New Zealand.
- Land Transport Rules are produced for the Minister of Transport by Land Transport New Zealand. These rules are available online at <http://www.landtransport.govt.nz/rules/>. New Zealand Road Code information can be obtained from the following website <http://www.landtransport.govt.nz/roadcode>.
- 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.
Motorcycle referred to in this unit standard includes on-road and off-road motorcycles, scooters, and all-terrain vehicles (ATVs).
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 can be accessed in hard copy or electronic format and is normally sourced from the manufacturer.
Suitable tools and equipment means 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.

- 4 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.
- 5 Recommended entry information: Unit 24309, *Demonstrate knowledge of motorcycle clutches and transmissions*.

Outcomes and performance criteria

Outcome 1

Check a motorcycle clutch operation.

Performance criteria

- 1.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, motorcycle safety, workshop safety, environmental safety, tools and equipment safety.
- 1.2 The clutch operation is checked with the motorcycle stationary and the engine running, and any faults found recorded, in accordance with service information.

Range includes but is not limited to – lever adjustment, lever travel, lever feel, noise, engagement.
- 1.3 The clutch operation is checked on a road or field test, and any faults found recorded, in accordance with service information.

Range includes but is not limited to – lever feel, noise, engagement, slippage, vibration, take-off shudder, smell of overheating.

Outcome 2

Dismantle and inspect a motorcycle clutch, and repair or replace parts.

Performance criteria

- 2.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, motorcycle safety, workshop safety, environmental safety, tools and equipment safety.
- 2.2 Suitable tools and equipment are selected and used to enable the clutch to be dismantled and inspected in accordance with service information.
- 2.3 The clutch or transmission is drained of oil, and the oil is disposed of in an environmentally safe manner in accordance with company requirements.
- 2.4 The clutch is disassembled in accordance with service information.

2.5 The clutch components are inspected for signs of damage, wear, and overheating, and an assessment is made to determine which parts are suitable for further use in accordance with company requirements.

Range may include but is not limited to – pressure plate, clutch hub inner and outer, friction discs, steel discs, bearings, springs, weights, levers, one-way clutch, centrifugal drums, levers, cables.

2.6 Components are repaired in accordance with service information.

Range may include but is not limited to – pressure plate surface, discs, centrifugal drums, levers, cables.

2.7 Any parts not suitable for further service are replaced in accordance with company requirements.

Outcome 3

Reassemble and adjust the clutch.

Performance criteria

3.1 Safe working practices are observed throughout the task in accordance with legislative requirements.

Range personal safety, safety of others, motorcycle safety, workshop safety, environmental safety, tools and equipment safety.

3.2 Suitable tools and equipment are selected and used to enable the clutch assembly to be assembled and adjusted in accordance with service information.

3.3 The clutch assembly is assembled in accordance with service information.

3.4 The clutch or transmission is filled with oil in accordance with manufacturer specifications.

3.5 The clutch operating mechanism is connected and adjusted to comply with manufacturer specifications.

3.6 The machine is road or field tested to ensure the clutch operates in accordance with manufacturer specifications.

Replacement information	This unit standard, unit standard 24309, unit standard 24310, unit standard 24312, and unit standard 24313 replaced unit standard 926 and unit standard 927.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 February 2008	31 December 2020
Review	2	26 April 2018	31 December 2020

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>.

This unit standard is Expiring