

Title	Demonstrate knowledge of automotive manual transmissions		
Level	2	Credits	3

Purpose	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 manual clutch operation, and a manual transmission.
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Classification	Motor Industry > Automotive Transmission Systems
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Available grade	Achieved
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Guidance Information

- 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 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 performance criteria

Outcome 1

Demonstrate knowledge of manual clutch operation.

Performance criteria

- 1.1 Components of a clutch assembly and its system are described.

Range may include but is not limited to – single plate, multi-plate.
- 1.2 Functions of a clutch are described.
- 1.3 The reasons why clutch adjustments to manufacturer's specifications are necessary are described.

Outcome 2

Demonstrate knowledge of a manual transmission.

Performance criteria

- 2.1 The components and general layout of a manual transmission are described.
Range may include but is not limited to – inline, transverse, motorcycle.
- 2.2 The purpose of the transmission and the relationship between the input and output speeds and torques, are described.

Replacement information	This unit standard was replaced by unit standard 30560.
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This unit standard is expiring. Assessment against this unit standard must take place by the last date for assessments set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 February 1993	31 December 2018
Review	2	4 August 1995	31 December 2018
Revision	3	30 October 1997	31 December 2018
Revision	4	28 May 1998	31 December 2018
Review	5	20 December 1998	31 December 2018
Revision	6	13 March 2001	31 December 2018
Revision	7	16 October 2003	31 December 2018
Review	8	27 July 2005	31 December 2018
Review	9	21 April 2016	31 December 2020
Review	10	26 October 2017	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>.