

Title	Demonstrate knowledge of and skills for driving a light four wheel drive (4WD) vehicle on-road		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate knowledge of light 4WD vehicle configuration; describe light 4WD vehicle stability and dynamics; describe hazards associated with driving a light 4WD vehicle towing a trailer on-road; and drive a light 4WD vehicle safely at different speeds on different road surfaces.
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Classification	Driving> Specialist Driving Knowledge and Skills
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Available grade	Achieved
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Prerequisites	Candidates must hold a minimum of a Restricted Class 1 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 and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; Land Transport Act 1998, Transport Act 1962, Traffic Regulations 1976, Land Transport (Driver Licensing) Rule 1999, Transport (Vehicle and Driver Registration and Licensing) Act 1986, and any subsequent amendments and replacements.
- 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;
drive includes to manoeuvre;
light 4WD vehicle means any four wheel vehicle with a gross laden weight less than 3500kg and capable of having motive power applied simultaneously to all four wheels. It does not include an all-terrain vehicle;
off-road means a surface other than a sealed or unsealed, formed road or track and includes but is not limited to bush tracks, beaches, river beds and open paddocks;
on-road means a sealed or unsealed, formed road or track;

oversized tyre is a tyre where the diameter of the tyre is larger than the vehicle manufacturer's specifications;

road surfaces include fine gravel on a hard base, wet sealed, iced road, sealed surface with fresh mud on it, dry sealed road surface, unsealed road surface;

safe driving techniques are defined in Part 2 of The Official New Zealand Road Code, current edition, available from booksellers.

Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of types and features of light 4WD vehicles.

Performance criteria

- 1.1 Vehicle types are described in terms of their configuration and purpose.
- Range long and short wheel-base, designed to carry goods, passengers, or a combination of goods and passengers.
- 1.2 Suspension types and their effect on ground clearances are explained in terms of on-road performance.
- Range independent suspension, live axle suspension system.
- 1.3 Operation of the drive train is identified in terms of function, controls, and components.
- Range permanent 4WD transmission, selectable 4WD transmission, differentials, hub types.

Outcome 2

Describe light 4WD vehicle stability and dynamics.

Performance criteria

- 2.1 Description includes centre of gravity and its effect on vehicle stability.
- Range acceleration, deceleration, cornering.
- 2.2 Description includes requirements for safe loading in terms of load type and load security.
- Range livestock, liquids, passengers, freight.
- 2.3 Description includes driving techniques required to counter load movement.

2.4 Description includes the effects of tyre type and condition on vehicle handling.

Outcome 3

Describe hazards associated with driving a light 4WD vehicle towing a trailer on-road.

Performance criteria

3.1 The description includes hazards associated with towing a trailer.

Range trailer swing, weight distribution, reversing, weight limits.

3.2 The description includes environmental hazards which may be faced when towing a trailer.

Range weather, road surface conditions, other traffic, terrain, visibility.

Outcome 4

Drive a light 4WD vehicle safely at different speeds on three different road surfaces.

Range speeds under 20 km/hour, speeds between 40 and 70 km/hour.

Performance criteria

4.1 Safe driving techniques applied maintain vehicle control in a range of situations, minimise risk of damage to vehicle, equipment and property.

Range urban road, winding rural road, highway or motorway.

Replacement information	This unit standard replaced unit standard 18473 and unit standard 18474.
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Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1		31 December 2020
Review	2	2018	N/A

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>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.