
**SPECIALIST DRIVING KNOWLEDGE
AND SKILLS**
**Demonstrate knowledge of and skills for
driving a light four wheel drive (4WD)
vehicle on-road**

level:	3
credit:	4
final date for comment:	May 2008
expiry date:	December 2009
sub-field:	Driving
replacement information	This unit standard replaced unit standards 18473 and 18474.
purpose:	<p>This unit standard is for people driving light 4WD vehicles on-road.</p> <p>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.</p>
entry information:	Candidates must hold a minimum of a Restricted Class 1 driver licence.
accreditation option:	Evaluation of documentation by NZQA, industry and the Land Transport Safety Authority.
moderation option:	A centrally established and directed national moderation system has been set up by the NZ Road Transport and Logistics Industry Training Organisation.
special notes:	<p>1 During assessment, candidates must comply with all legislative requirements including: 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 Health and Safety in Employment Act 1992.</p>

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- 2 The following unit standards are relevant to this unit standard, but are not prerequisite unit standards: Unit 17976, *Demonstrate knowledge of operating a light four wheel drive (4WD) vehicle in a off-road environment* and Unit 3466, *Apply risk reduction techniques while driving*.
- 3 For the purpose of assessment of this unit standard, any new, amended or replaced legislation, regulations, Rules, standards, codes of practice or Land Transport Safety Authority requirements or conditions affecting the outcome of this unit standard apply.
- 4 Definitions
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 for which a Class 6 driver licence is required;
on-road means on 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.

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Elements and Performance Criteria

element 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.

element 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.

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- 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.
- Range: new, worn, mismatched, damaged, directional tread, on-road and/or off-road tyres, inflation, oversized.

element 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: includes but is not limited to - trailer swing, weight distribution, reversing, weight limits.
- 3.2 The description includes environmental hazards which may be faced when towing a trailer.
- Range: includes but is not limited to - weather, road surface conditions, other traffic, terrain, visibility.

element 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, and are in compliance with legislation.
- Range: must include but is not limited to - urban road, winding rural road, highway or motorway.

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Comments on this unit standard

Please contact the New Zealand Road Transport and Logistics Industry Training Organisation office@roadtrain.org.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0092 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.