

<b>Title</b>	<b>Drive on snow and/or ice</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to drive and stop a vehicle safely on snow and/or ice, and complete self-recovery procedures for a vehicle stranded in snow and/or ice.
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<b>Classification</b>	Driving > Specialist Driving Knowledge and Skills
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	<p>Unit 18138, <i>Fit and remove vehicle chains</i>, or demonstrate equivalent knowledge and skills.</p> <p>Drivers must hold a current driver licence appropriate to the weight and configuration of the vehicle being driven, including an appropriate current licence endorsement if required.</p>
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## Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:  
Health and Safety at Work Act 2015;  
and any subsequent amendments.  
  
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.
- 2 Definition  
A *vehicle* refers to any light or heavy vehicle, and may include two or four wheel drive vehicles.
- 3 This unit standard may be assessed against in conjunction with Unit 15158, *Carry out pre-start vehicle checks on a heavy motor vehicle, prepare vehicle for use, and shut it down*, or Unit 17676, *Carry out a pre-start vehicle check on a vehicle or machine, and start and shut down the vehicle or machine*.

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## Outcomes and performance criteria

### Outcome 1

Drive and stop a vehicle safely on snow and/or ice.

**Performance criteria**

- 1.1 Vehicle is checked and made ready for use.
- Range must include – chains and necessary equipment;  
may include – shovels, bungy cords, blocks.
- 1.2 Conditions likely to lead to the loss of vehicle control are explained in terms of techniques for maintaining control of the vehicle.
- Range conditions – weather (whiteout, wind, snow, sun, rain), road surface and condition;  
techniques – braking, skids, loss of traction, use of chains, use of four wheel drive.
- 1.3 Operation of the vehicle on snow and/or ice complies with traffic law, HSE regulations and any enterprise requirements.
- Range operation must take into account – road and weather conditions, vehicle condition, driver condition, passengers, safety equipment, chains.
- 1.4 Vehicle is driven safely to match the driving conditions through appropriate gear selection and speed.
- Range driving conditions include – weather, road, lights, vehicle, traffic.
- 1.5 Braking is anticipated and applied consistently on a range of road surfaces, to ensure a gradual stop without skidding.
- Range road surfaces include – sealed and gravelled;  
braking includes – braking and pulse braking (if applicable to vehicle), on straight road, on bends, bringing vehicle to a halt in a straight line.
- 1.6 The vehicle is parked taking into account roadside communications, and prevents slippage of vehicle, avoids danger to on-coming vehicles, and reduces risk to passengers and driver as they move in and out of the vehicle.
- Range roadside communications may include – marker posts, cats-eyes, road delineation boards.

**Outcome 2**

Complete self-recovery procedures for a vehicle stranded in snow and/or ice.

**Performance criteria**

2.1 Resources are used to protect the scene, and ensure safety of any passengers and the vehicle.

Range may include but is not limited to – emergency triangles, hazard warning signs, points person, people, use of other vehicles and their hazard lights.

2.2 Recovery aids are used to facilitate recovery of vehicle on snow and/or ice.

Range may include but is not limited to – chains, gravel, old sacks, digging out, jacks, chocks, winches.

2.3 Emergency communication procedures to assist in recovery of a stranded vehicle are demonstrated.

Range may include but is not limited to – telephone, cellphone, two-way radio, snowsport area policy and procedures.

<b>Planned review date</b>	31 December 2022
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 December 1996	31 December 2023
Review	2	28 March 2001	31 December 2023
Review	3	26 August 2003	31 December 2023
Review	4	29 June 2005	31 December 2024
Rollover and Revision	5	29 September 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.