

Title	Drive and manoeuvre a steam driven road vehicle		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge and skills required to: operate the controls, safely stop, and control a steam driven road vehicle. They are also able to demonstrate knowledge of routes suitable for use by steam driven vehicles and procedures for obtaining required permits.
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Classification	Commercial Road Transport > Steam Driven Vehicles
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Available grade	Achieved
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Prerequisite	Unit 21755, <i>Prepare, bring to steam, and operate a steam driven vehicle and steam boiler</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 Range
This unit standard applies only to steam driven road vehicles, including steam traction engines, steam cranes, steam trucks, steam cars, and steam rollers. Steam driven road vehicles fitted with boilers not exceeding 50 litres water capacity are excluded.
- 2 All tasks must be carried out in accordance with the Land Transport Rule: Traction Engines 2010 (the Rule) <http://www.nzta.govt.nz/resources/rules/traction-engines-2010-index.html>.
- 3 Definition
Organisational requirements include any legal requirements, standards, codes of practice, organisational and/or site policies and procedures, industry best practice and manufacturers' instructions. These must be available to candidates, providers, and assessors. The applicable standard is the highest standard specified.
- 4 Before assessment commences, the boiler must be checked to ensure it has a current boiler certificate.
- 5 Achievement of competency in this unit standard does not authorise a person to drive a steam driven vehicle on a public road. For operation on public roads, drivers must hold the required class of driver licence and licence endorsements prescribed in the Land Transport (Driver Licensing) Rule 1999.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge and skills required to operate the controls of a steam driven road vehicle.

Performance criteria

- 1.1 The controls of the vehicle are identified, and their use is explained in terms of vehicle behaviour.
- Range may include – throttle or regulator or auxiliary starting valve, flywheel, gear shift lever, locking pin arrangement, operation of engine cylinder drain cocks, brakes, chocks, reversing lever, steering wheel, driving and differential pins.
- 1.2 The response and behaviour of the vehicle to the operation of the controls is demonstrated safely.
- Range may include – throttle or regulator or auxiliary starting valve, flywheel, gear shift lever, locking pin arrangement, brakes, chocks, reversing lever, steering wheel, operation of engine cylinder drain cocks.

Outcome 2

Demonstrate knowledge and skills required to safely bring a steam driven road vehicle to a stop.

Performance criteria

- 2.1 The various methods of stopping systems in use are described and demonstrated in accordance with organisational requirements.
- 2.2 Best practise and care required when slowing or stopping under various operating situations are described in accordance with organisational requirements.
- Range may include – forward direction, reverse direction, level surface, ascending surface, descending surface.

Outcome 3

Demonstrate knowledge and skills required to control a steam driven road vehicle.

Performance criteria

- 3.1 Smooth starting, acceleration, deceleration, manoeuvring through turns and bends, stopping, and securing the vehicle are explained and demonstrated while maintaining safe control of the vehicle.

Range forward direction, reverse direction, level surface, ascending surface, descending surface.

Outcome 4

Demonstrate knowledge of routes suitable for use by steam driven vehicles and procedures for obtaining required permits.

Performance criteria

- 4.1 The routes suitable for use by steam driven road vehicles in accordance with local authority bylaws and Waka Kotahi NZ Transport Agency requirements are explained.
- 4.2 The procedures for obtaining permits for use of steam driven road vehicles in accordance with local authority bylaws and Waka Kotahi NZ Transport Agency requirements are explained.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 January 1998	31 December 2001
Revision	2	16 May 2003	31 December 2016
Review	3	27 May 2005	31 December 2016
Review	4	16 July 2015	31 December 2022
Review	5	29 April 2021	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.