

Title	Demonstrate knowledge of motor vehicle fuel tanks and replacing fuel tanks		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of: motor vehicle fuel tanks; and removing and replacing a motor vehicle fuel tank.
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Classification	Motor Industry > Vehicle Bodywork
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references
Performance of the outcomes of this unit standard must comply with the following:
Hazardous Substances and New Organisms Act 1996;
Health and Safety at Work Act 2015;
Land Transport Rule: Vehicle Equipment 2004, Rule 32017.
- 2 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.
- 3 Land Transport Rules are available online at <https://www.nzta.govt.nz/>.
- 4 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, manufacturer specifications, product quality specifications and legislative requirements.
Heavy vehicle refers to a motor vehicle that is of Class MD3, MD4, ME, NB, NC, TC or TD; or has a gross vehicle mass that exceeds 3500 kg and is not of a class specified in the table of vehicle classes as listed from Land Transport New Zealand website <https://www.nzta.govt.nz/vehicles/vehicle-types/>.
Light vehicle refers to classes as listed from Land Transport New Zealand website table <https://www.nzta.govt.nz/vehicles/vehicle-types/>: passenger vehicle MA, MB, MC; omnibus MD, MD1, MD2; and goods vehicle NA.
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.

5 Assessment

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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of motor vehicle fuel tanks.

Performance criteria

1.1 Types and construction of fuel tanks are described.

Range metal, plastic; light vehicle, heavy vehicle.

1.2 Components that make up a fuel tank are described.

Range may include – sender unit, outlet and inlet pipes, venting, baffles, plug, vapour canisters, storage canisters, roll-over valves, anti-chaffing, mounting brackets; evidence of seven components required.

1.3 Safety requirements when working on or around fuel tanks are described.

1.4 Potential hazards when draining and working on petrol and diesel fuel tanks are identified.

Range fire, fumes, explosion.

Outcome 2

Demonstrate knowledge of removing and replacing a motor vehicle fuel tank.

Range one of – light vehicle, heavy vehicle.

Performance criteria

2.1 Procedures to identify and disconnect and reconnect wiring are described.

2.2 Procedures for draining, storing, and replacing fuel are described.

Range fire, fumes, spillage, injury.

2.3 Procedures for disconnecting and reconnecting high pressure fuel pipes are described.

2.4 Procedures for removing and replacing the fuel tank are described.

Replacement information	This unit standard and unit standard 23991 replaced unit standard 5768.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2007	31 December 2018
Review	2	21 April 2016	31 December 2022
Review	3	27 August 2020	31 December 2027
Review	4	25 May 2023	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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.