

Title	Diagnose and repair faults in an automotive liquefied petroleum gas (LPG) fuel system		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: service an LPG fuel system and diagnose and repair LPG fuel system faults.
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Classification	Motor Industry > Automotive Fuel Systems and Exhaust
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for Unit 31271, *Demonstrate knowledge of automotive liquefied petroleum gas (LPG) and liquefied natural gas (LNG) fuel systems* before being assessed against this unit standard.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and 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; AS/NZS 1425:2013 *LP Gas fuel systems for vehicle engines*; and any subsequent amendments or replacements.
- 4 **Definitions**
Company requirements refers 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.
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 *Machines* may include – forklifts, earth-moving equipment, grader equipment, loaders, dozers, tractors, agricultural equipment, dump trucks, prime movers; electric machines, including – forklift, walk-behind pallet, ride-on pallet, reach truck, order picker, counterbalance truck, turret truck.

Outcomes and performance criteria

Outcome 1

Service an LPG fuel system.

Performance criteria

1.1 LPG fuel system is serviced.

Range may include – clean filter, drain regulator, replace air filter, detect leaks, secure components, inspect hose condition, inspect mixer attachment for security and operation, adjust mixture; evidence of two separate services is required.

Outcome 2

Diagnose and repair LPG fuel system faults.

Range evidence of two separate faults is required.

Performance criteria

2.1 LPG fuel system faults are diagnosed.

2.2 LPG fuel system faults are repaired.

2.3 Leak test is performed after fault is repaired.

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	25 January 2008	31 December 2020
Review	2	26 July 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.