

Title	Demonstrate knowledge of safety requirements in gasfitting		
Level	3	Credits	4

Purpose	<p>This unit standard is for people who work in the gasfitting industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of:</p> <ul style="list-style-type: none"> – the recognition and reporting of unsafe situations or incidents; – gas hazards and safety precautions; – procedures in relation to gasfitting accidents or other incidents; – reporting gasfitting accidents or other incidents; and – making defective gas equipment safe.
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Classification	Plumbing, Gasfitting and Drainlaying > Gasfitting
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Available grade	Achieved
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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:
- Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Gas Act 1992;
 - Gas (Safety and Measurement) Regulations 2010.

The following standards, which are available at <http://www.standards.govt.nz>:
 AS/NZS 5601.1:2013 *Gas installations – Part 1: General installations*,
 AS/NZS 5601.2:2013 *Gas installations – Part 2: LP Gas installations in caravans and boats for non-propulsive purposes*.

The following Building Code clause, and any related Acceptable Solution and Verification Method documents, which are available at <https://www.building.govt.nz/>:

- New Zealand Building Code Clause G11 Gas as an Energy Source.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the recognition and reporting of unsafe situations or incidents.

Range faulty appliances, installations, leaking gas, potential gas fire or explosion, carbon monoxide.

Performance criteria

1.1 Describe methods that can be used to identify unsafe situations in gasfitting.

1.2 Explain warning and reporting procedures of unsafe situations in the workplace in accordance with relevant legislation, standards, and codes.

1.3 Explain reporting requirements of unsafe installations to WorkSafe.

Range immediately unsafe, deemed to be unsafe.

Outcome 2

Demonstrate knowledge of gas hazards and safety precautions.

Performance criteria

2.1 Explain the potential hazards arising from uncontrolled gas.

Range fire, explosion, asphyxiation.

2.2 Explain the potential hazards arising from incomplete combustion.

2.3 Explain potential hazards arising from incorrect appliance ventilation.

2.4 Explain safety precautions and procedures for the control of gas hazards in accordance with relevant legislation, standards, and codes.

2.5 Describe the signs of a person being gas affected.

2.6 Describe upper and lower explosive limits (UEL, LEL) for natural gas and LPG.

Outcome 3

Demonstrate knowledge of procedures in relation to gasfitting accidents or other incidents.

Performance criteria

3.1 Explain typical site evacuation procedures in accordance with relevant legislation and codes.

- 3.2 Explain safety and/or gas supply isolating procedures in accordance with relevant legislation and codes.
- 3.3 Identify gas detection equipment and fire extinguishers suitable for use with gas accidents or other incidents, in terms of the gas type.

Outcome 4

Demonstrate knowledge of reporting gasfitting accidents or other incidents.

Performance criteria

- 4.1 Identify the types of gasfitting accidents or other incidents that must be reported in accordance with relevant legislation and codes.
- 4.2 Explain the procedures, and details of reporting of gasfitting accidents or other incidents in accordance with relevant legislation and codes.

Range place, time, and date of accident or other incident; description of the accident or other incident; any injuries, damage, and losses resulting from accident or other incident; other possible factors; time frame for reporting, parties involved.

Outcome 5

Demonstrate knowledge of making defective gas equipment safe.

Performance criteria

- 5.1 Explain procedures for making defective gas equipment safe in accordance with relevant legislation, standards, and codes.

Range danger and warning labels are displayed, equipment is isolated from gas supply, lockouts.

- 5.2 Describe procedures for the placement and removal of warning notices in accordance with relevant legislation and codes.

Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 2007	31 December 2022
Review	2	23 November 2017	31 December 2028
Review	3	25 July 2024	N/A

Consent and Moderation Requirements (CMR) reference	0003
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.