Title	Demonstrate knowledge of ventilation requirements for gas appliances		
Level	4	Credits	5

Purpose	This unit standard is for people who work in the gasfitting industry.	
	People credited with this unit standard are able to demonstrate knowledge of:  ventilation requirements to provide adequate air supply for gas appliances; and  ventilation requirements to provide combustion air for gas appliances.	

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;

Gas Act 1992:

Gas (Safety and Measurement) Regulations 2010;

Health and Safety at Work Act 2015;

Plumbers, Gasfitters, and Drainlayers Act 2006;

Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <a href="http://www.standards.govt.nz">http://www.standards.govt.nz</a>:
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 clauses, and any related Acceptable Solution and Verification Method documents, which are available at <a href="https://www.building.govt.nz/">https://www.building.govt.nz/</a>:

- New Zealand Building Code, Clause E2 External Moisture,
- New Zealand Building Code Clause G4 Ventilation,
- 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.

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2 Definition

Free ventilation area refers to the unobstructed area of a ventilation opening.

3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

# Outcomes and performance criteria

## **Outcome 1**

Demonstrate knowledge of ventilation requirements to provide adequate air supply for gas appliances.

Range AS/NZS 5601.1:2013.

#### Performance criteria

1.1 Describe the process for determining combustion air requirements in accordance with burner input.

Range flued and flueless appliances.

- 1.2 Describe the requirements to provide compartment ventilation to maintain ambient air temperatures.
- 1.3 Determine the free ventilation area, location and number of openings required for ventilation.
- 1.4 Describe the process for determining ventilation and safeguards required for plant rooms, commercial buildings, garages and enclosures, commercial catering vehicles.

Range includes but is not limited to – mechanical air supply, mechanical exhaust ventilation, fan interlocks.

## Outcome 2

Demonstrate knowledge of ventilation requirements to provide combustion air for gas appliances.

Range AS/NZS 5601.2:2013.

## Performance criteria

2.1 Describe the process for determining cross ventilation requirements.

Range distance from ceiling, distance from floor.

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2.2 Determine locations of ventilation openings.

Range boats, caravans.

- 2.3 Describe the requirements for provision of gas detection.
- 2.4 Describe the requirements for the provision of vent warning labels.

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	23 November 2017	31 December 2028
Review	2	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 <a href="mailto:qualifications@waihangaararau.nz">qualifications@waihangaararau.nz</a> if you wish to suggest changes to the content of this unit standard.