

<b>Title</b>	<b>Demonstrate knowledge of flues for gas appliances</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<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 flues for gas appliances.</p>
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<b>Classification</b>	Plumbing, Gasfitting and Drainlaying > Gasfitting
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<b>Available grade</b>	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 standard, which is available at <http://www.standards.govt.nz>:  
AS/NZS 5601.1:2013 *Gas installations – Part 1: General installations*.

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

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

- 2 **Definition**  
*Flue systems* refer to natural draft systems including open type or room sealed balanced, individual or common flues, use of existing chimney; and power flued systems including fan assisted, forced draft, induced draft.
- 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 flues for gas appliances.

#### Performance criteria

- 1.1 Describe types of flue systems and flue components for gas appliances.
- Range natural draught, balanced flue, power flue, open flue, common flue.
- 1.2 Describe the situations in which each type of flue system is most suitable for use.
- 1.3 Describe means of heat protection of flues for gas appliances.
- Range single skin, twin wall, safety shield, cage, clearances.
- 1.4 Explain requirements relating to offsets and clearances from flue terminals and weathertightness considerations in accordance with relevant standards and codes.
- 1.5 Describe how common flues are sized to comply with AS/NZS 5601.1:2013.
- 1.6 Determine suitable flue materials, applications, and limitations to comply with AS/NZS 5601.1:2013.

<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihangaararau.nz](mailto:qualifications@waihangaararau.nz) if you wish to suggest changes to the content of this unit standard.