

<b>Title</b>	<b>Demonstrate knowledge of flues for gas appliances</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</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 References  
 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*;  
 The following clauses, and any related compliance 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;  
 and all subsequent amendments and replacements.
- 2 Credit for this unit standard does not entitle the candidate to legally perform certain electrical aspects of this work unless registered or supervised by a registered person under the provisions of the Electricity Act 1992.
- 3 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.
- 4 Definitions  
*Flue systems* – 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.  
*Other services* – any existing installed services.
- 5 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of flues for gas appliances.

### Performance criteria

- 1.1 Describe types of flue system.
- 1.2 Describe the situations in which each type of flue system is best used.
- 1.3 Describe means of heat protection.
- Range      single skin, double skin, safety shield, cage, clearances, cavity ventilation.
- 1.4 Explain code requirements relating to offsets and clearances from cowls.
- 1.5 Determine the sizing of common flues 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.
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<b>Planned review date</b>	31 December 2022
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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	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>.

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### Comments on this unit standard

Please contact The Skills Organisation [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.