

<b>Title</b>	<b>Demonstrate knowledge of the installation and maintenance of gas control and safety devices</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</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:</p> <ul style="list-style-type: none"> <li>– gas control and safety devices and their installation;</li> <li>– the testing, purging, and commissioning of gas control and safety devices;</li> <li>– the maintenance of gas control and safety devices; and</li> <li>– regulatory requirements and operating principles of gas control and safety devices.</li> </ul>
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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;  
 Electricity Act 1992;  
 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>:  
 NZS 5261:2003 *Gas installation*;  
 The following clause, and any related compliance documents, which are available at <https://www.building.govt.nz/>:  
 New Zealand Building Code Clause G11 Gas as an Energy Source;  
 and all subsequent amendments and replacements.
- 2 This unit standard applies to gas control devices used in gas installations between the point of supply and the appliance.
- 3 Range
 

Control and safety devices include but are not limited to – regulators, pressure-raising devices, under and over pressure cut offs, valves, solenoids, excess-flow valves, filters.

- 4 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
- 5 Definitions  
*Job specifications* – instructions (oral, written, graphic) and may include any of the following: manufacturers' instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.  
*Maintain* may refer to all or any of – repair, upgrade, alter, remove, replace.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of gas control and safety devices and their installation.

#### Performance criteria

- 1.1 Identify and describe gas control and safety devices.
- 1.2 Describe how gas control and safety devices are connected to connection and termination points in accordance with job specifications.
- 1.3 Explain how gas control and safety devices are secured and protected in accordance with job specifications.

### Outcome 2

Demonstrate knowledge of the testing, purging, and commissioning of gas control and safety devices.

#### Performance criteria

- 2.1 Explain how gas control and safety devices are tested, purged, and commissioned in accordance with job specifications and relevant standards and codes.

### Outcome 3

Demonstrate knowledge of the maintenance of gas control and safety devices.

#### Performance criteria

- 3.1 Explain how faults and possible means of rectification are identified.
- 3.2 Describe the need for retesting and recommissioning of gas control and safety devices in accordance with maintenance requirements and relevant standards and codes.

**Outcome 4**

Demonstrate knowledge of regulatory requirements and operating principles of gas control and safety devices.

**Performance criteria**

- 4.1 Describe applicable sections of legislation, standards, and codes in terms of their application to the installation, testing, purging, commissioning, and maintenance of gas control and safety devices.
- 4.2 Explain the operating principles of gas control and safety devices.

<b>Replacement information</b>	This unit standard and unit standard 30714 replaced unit standard 21898.
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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>.

**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.