

<b>Title</b>	<b>Demonstrate knowledge of theory for registration of gasfitters</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard covers the theory assessment required for registration as a tradesman gasfitter. To achieve this unit standard candidates must pass the Tradesman Gasfitter Registration Examination, which is based on the competencies set out in the Plumbers, Gasfitters and Drainlayers Board (Gasfitting Registration and Licensing) Notice 2016 and described in the Examination Guide No. 9193 Tradesman Gasfitter.</p> <p>People credited with this unit standard are able to demonstrate knowledge of:</p> <ul style="list-style-type: none"> <li>– workplace responsibilities and workplace safety;</li> <li>– materials and gases relating to gasfitting work; and</li> <li>– gasfitting systems.</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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<b>Prerequisites</b>	Candidates who are working within the jurisdiction of the Plumbers, Gasfitters, and Drainlayers Board must hold a current gasfitting limited certificate or exemption for gasfitting under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
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## Guidance Information

- 1 References
  - AS/NZS 5601:1&2:2013 set Gas installations Parts 1 and 2;
  - AS/NZS 1596:2014 The storage and handling of LP Gas;
  - AS/NZS 3604:2011 Timber framed buildings – Holes and checks in studs, plates and joists; available at <http://www.standards.govt.nz>;
  - Building Act 2004;
  - Excavation Safety Good Practice Guidelines* (Wellington: Worksafe, 2016) (available at <https://worksafe.govt.nz>);
  - Gas Act 1992;
  - Gas (Safety and Measurement) Regulations 2010;
  - Health and Safety at Work Act 2015;
  - New Zealand Building Code Handbook, Ministry of Business, Innovation and Employment;
    - B2: Durability

- E2: External moisture
  - G4: Ventilation
  - G11: Gas an energy source;
- NZS 5266:2014 Safety of gas appliances;  
 Plumbers, Gasfitters, and Drainlayers Act 2006;  
 The Building Code, (Building Regulations 1992, Schedule 1);  
*Acceptable Solutions and Verification Methods*, published by Ministry of Business, Innovation, and Employment at <https://www.building.govt.nz/>;  
*Underground services - Guide for safety with underground services* (Wellington: Department of Labour, 2002) (available at <https://worksafe.govt.nz/>);  
 and all subsequent amendments and replacements.

## 2 Range

To be eligible for registration as a as tradesman gasfitter, candidates must complete a competency-based programme of learning approved by the Plumbers, Gasfitters, and Drainlayers Board (PGDB) and must pass the PGDB Tradesman Gasfitter Registration Examination (reference 9193), which is based on the competencies set out in the Plumbers, Gasfitters, and Drainlayers Board (Gasfitting Registration Licensing) Notice 2016. The examination is the only valid assessment tool for this unit standard, and credit for this unit standard may only be granted on evidence of passing the examination. The Schedule Part B - Tradesman Gasfitters of the Notice 2016 is the main reference for this examination.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of workplace responsibilities and workplace safety.

#### Performance criteria

- 1.1 Explain matters relating to workplace responsibilities and workplace safety in accordance with PGDB Tradesman Gasfitter registration requirements.

Range may include but is not limited to – limitations on persons who do, or assist in doing, gasfitting work; site safety, electrical safety, personal, and public safety; safety practices relating to confined spaces, heights, excavations, the handling of materials, electricity, and tools; considerations related to building structure preservation and weather tightness when installing and/or maintaining pipework and appliances.

### Outcome 2

Demonstrate knowledge of materials and gases relating to gasfitting work.

#### Performance criteria

- 2.1 Explain matters relating to materials and gases relating to gasfitting work in accordance with PGDB Tradesman Gasfitter registration requirements.

Range may include but is not limited to – materials used in gasfitting work, their properties, and characteristics, including limitations in their usage; handling methods; corrosion protection; jointing methods; types, uses, characteristics, composition, safe storage and safe handling of fuel gases.

### Outcome 3

Demonstrate knowledge of gasfitting systems.

#### Performance criteria

3.1 Explain matters relating to gasfitting systems in accordance with PGDB Tradesman Gasfitter registration requirements.

Range may include but is not limited to – installation, testing, commissioning, fault-finding, and maintenance of gasfitting systems; interpreting plans and specifications; gas supply pipework, service lines, meters and regulator systems; testing, purging, commissioning and decommissioning of gasfitting installations and/or its components; gas-fired appliances and equipment; domestic and non-domestic air and water heating; control and testing devices; safety devices; ventilation and flueing; calculations and trade science principles related to gasfitting systems.

<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	16 April 2015	N/A
Review	2	26 March 2020	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.