

<b>Title</b>	<b>Demonstrate knowledge of electrical and electronics work for gas appliances</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</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>– limitations on undertaking electrical and electronics work on gas appliances; and</li> <li>– basic electronic components in gas appliances.</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  
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>:  
AS/NZS 5601.1:2013 *Gas installation*;  
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 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 limitations on undertaking electrical and electronics work on gas appliances.

**Performance criteria**

- 1.1 Describe prescribed electrical work in terms of the Electricity Act 1992.
- 1.2 Describe limitations on persons who are permitted to undertake prescribed electrical work.
- Range may include but is not limited to – Associated Tradesperson, Electrical Appliance Serviceperson.
- 1.3 Describe typical requirements to meet manufacturer authorisation to service gas equipment and associated electronics.

**Outcome 2**

Demonstrate knowledge of basic electronic components in gas appliances.

Range may include but is not limited to – overheat sensor, thermal fuse, air pressure switch, PCB, solenoid operated gas valve, thermostat, water flow sensor.

**Performance criteria**

- 2.1 Identify three electronic components from symbols in schematic or circuit diagrams.
- 2.2 Identify three electronic components from visual inspection.
- 2.3 Explain basic function of three electronic components in the operation of a gas appliance.

<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.