

Title	Demonstrate knowledge of electrical and electronics work for gas appliances		
Level	4	Credits	3

Purpose	<p>This unit standard is for people who work in the gasfitting industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – describe limitations on undertaking electrical and electronics work on gas appliances; and – demonstrate knowledge of basic electronic components in gas appliances.
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Classification	Plumbing, Gasfitting and Drainlaying > Gasfitting
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Available grade	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:
- 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 standards, which are available at <http://www.standards.govt.nz>:
 AS/NZS 5601.1:2013 *Gas installations – Part 1: General installations*;
 AS/NZ 3000:2018 *Electrical installations – Known as the Australian/New Zealand Wiring Rules*.

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

- New Zealand Building Code Clause G9 Electricity.

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 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 trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Outcomes and performance criteria

Outcome 1

Describe 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 includes but is not limited to – overheat sensor, thermal fuse, air pressure switch, PCB, solenoid operated gas valve, thermostat, water flow sensor, fan.

Performance criteria

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

Planned review date	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

Consent and Moderation Requirements (CMR) reference	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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.