

<b>Title</b>	<b>Install and commission electrically controlled gas appliances and equipment</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</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:</p> <ul style="list-style-type: none"> <li>– install electrically controlled gas appliances and equipment; and</li> <li>– commission electrically controlled gas appliances and equipment.</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 standards, which are available at <http://www.standards.govt.nz>:
    - AS/NZS 5601.1:2013 *Gas installation*,
    - AS/NZS 5601.2:2013 *LP Gas installations in caravans and boats for non-propulsive purposes*,
    - NZS 3604:1999 *Timber Framed Buildings*;
  - 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 Range  
Two gas cooking appliances which may include but are not limited to – domestic and commercial ovens, ranges, grills, fryers, baking ovens, steam ovens;  
two space gas heating appliances;  
two central gas heating appliances;  
two gas water heating appliances which may include but are not limited to – continuous flow water heaters, storage water heaters, pool heaters, spa pool heaters, indirect heated water heaters, boilers.
- 4 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.
- 5 Definitions  
*Electrically controlled gas appliances* – mains power supplied electrically controlled gas appliances generally below 250MJ per hour rated input.  
*Job specifications* – instructions (oral, written, graphic) and may include any of the following: manufacturer 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.  
*Other services* – any existing installed services.
- 6 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.
- 7 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
- 8 All practical activities are to be carried out in a way that avoids harm to people and damage to property, other services, materials, tools, and equipment.

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## Outcomes and performance criteria

### Outcome 1

Install electrically controlled gas appliances and equipment.

### Performance criteria

- 1.1 Select appropriate gas appliances, flues, and ventilation in accordance with job specifications and AS/NZS 5601:2013, Part 1 and Part 2.
- 1.2 Establish location of gas appliances, flues, and ventilation in accordance with job specifications and AS/NZS 5601:2013. Part 1 and Part 2.
- 1.3 Install gas appliances, flues, and ventilation in accordance with job specifications.

- 1.4 As required, install flashing to ensure weather tightness in accordance with Clause E2 of the New Zealand Building Code and any related compliance documents.
- 1.5 Carry out soundness tests in accordance with AS/NZS 5601:2013, Part 1 and Part 2.
- 1.6 Purge gas supply system in accordance with AS/NZS 5601:2013, Part 1 and Part 2.
- 1.7 Connect gas appliances and associated fittings to gas supply connection points in accordance with job specifications.

**Outcome 2**

Commission electrically controlled gas appliances and equipment.

**Performance criteria**

- 2.1 Carry out gas appliance commissioning in accordance with manufacturer instructions.
- 2.2 Test flues in accordance with AS/NZS 5601:2013, Part 1 and Part 2.  
  
Range smoke test or draft gauge.
- 2.3 Determine and calculate ventilation requirements.
- 2.4 Complete post installation documentation in accordance with job requirements.  
  
Range may include but is not limited to – gas certificates, guarantees, checklists.
- 2.5 Instruct the consumer on the proper use of appliance on completion of installation and commissioning.

<b>Replacement information</b>	This unit standard and unit standard 30707 replaced unit standard 21893.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**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	31 December 2028

<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>.

This unit standard is expiring