

Title	Determine supply requirements, install, and commission consumer gas pipework		
Level	4	Credits	6

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"> – determine consumer gas supply requirements; – install, commission, and test consumer gas pipework.
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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:
- Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Gas Act 1992;
 - Gas (Safety and Measurement) Regulations 2010;
 - Plumbers, Gasfitters, and Drainlayers Act 2006;
 - Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <http://www.standards.govt.nz>:
 NZS 3604:2011 *Timber-framed buildings*,
 AS/NZS 5601.1:2013 *Gas installations – Part 1: General installations*.

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

- New Zealand Building Code Clause G10 Piped Services,
- New Zealand Building Code Clause G11 Gas as an Energy Source.

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 Definitions

Job specifications refer to 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.

Maintain may refer to all or any of repair, upgrade, alter, remove, replace.

3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

4 Assessment information

All work must be completed in accordance with job specifications and relevant standards and codes.

5 Range

Pipework may include but is not limited to – copper, mild steel, stainless steel, polyethylene, a proprietary system, multi layer; and associated fittings and/or fixtures. Jointing methods are determined according to the material being joined and may include but are not limited to – brazed, tapered thread, compression type fitting, flange, fusion weld.

6 Level of performance

To achieve this standard the candidate must be capable of consistently performing the requirements:

- to current and relevant legislation, standards and codes (including safety);
- in an environmentally sustainable manner;
- within an acceptable timeframe;
- in the workplace;
- in different and unfamiliar contexts.

Outcomes and performance criteria

Outcome 1

Determine consumer gas supply requirements.

Performance criteria

1.1 Verify gas supply in accordance with AS/NZS 5601.1:2013.

1.2 Determine pipe size to comply with AS/NZS 5601.1:2013, and with reference to supply pressure, gas type, and consumption needs.

Outcome 2

Install, commission, and test consumer gas pipework.

Performance criteria

- 2.1 Install pipework to the requirements of AS/NZ 5601.1:2013, Gas (Safety and Measurement) Regulations 2010.
- Range includes appropriate jointing methods, correctly spaced supports, proper protection, and any required identification.
- 2.2 Perform gas tightness tests in accordance with AS/NZS 5601.1:2013.
- Range installations up to 30 litres, including processes for leakage detection, and repair, and final connection methods.
- 2.3 Connect the installation to the gas supply and test final connections.
- 2.4 Purge gas pipework under 30 litres.

Replacement information	This unit standard and unit standard 33414 replaced unit standard 30716.
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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	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.