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| Title | Determine supply requirements and install, commission, and maintain consumer gas pipework | | |
| Level | 4 | Credits | 10 |

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| 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; and – maintain 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 References

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 installation*,
 NZS 5807:1980 *Codes of practice for industrial identification by colour, wording or other coding*;
 The following clauses, and any related compliance 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;
 and all subsequent amendments and replacements.

2 Range

Pipework includes but is not limited to – associated fittings and/or fixtures; copper, mild steel, stainless steel, polyethylene, polypropylene, a proprietary system. 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, proprietary system.

3 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.

4 Definitions

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
Maintain may refer to all or any of – repair, upgrade, alter, remove, replace.
Other services refers to any existing installed services.

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

6 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.

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 for copper or steel pipe to comply with AS/NZS 5601.1:2013, and with reference to supply pressure, gas type, and consumption needs.
- 1.3 Determine pipe size for a proprietary pipe system to comply with manufacturer instructions, 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 copper or steel gas pipework to the requirements of AS/NZ 5601.1:2013, Gas (Safety and Measurement) Regulations 2010, and job specifications.

Range includes appropriate jointing methods, correctly spaced supports, proper protection, and any required identification.

2.2 Install a proprietary system of gas pipework to the requirements of the manufacturer's instructions, Gas (Safety and Measurement) Regulations 2010, and job specifications.

Range includes appropriate jointing methods, correctly spaced supports, proper protection, and any required identification.

2.3 Perform soundness tests in accordance with AS/NZS 5601.1:2013 Appendix E.

Range installations up to 30 litres, including processes for leakage detection, and repair, and final connection methods.

2.4 Connect the installation to the gas supply and test final connections.

2.5 Purge gas pipework under 30 litres.

Outcome 3

Maintain consumer gas pipework.

Performance criteria

3.1 Inspect pipe and fittings to determine their physical condition, and test an installation for soundness.

3.2 Identify causes of faults and possible means of rectifying them.

Range must include but is not limited to – blockage, leaks, physical damage, corrosion.

3.3 Repair or remedy faults in accordance with maintenance requirements and job specifications.

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| Replacement information | This unit standard and unit standard 30715 replaced unit standard 2116. |
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| Planned review date | 31 December 2022 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
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| Registration | 1 | 23 November 2017 | N/A |

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| 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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.