

Title	Position, install, and commission low pressure hot water supply systems		
Level	4	Credits	6

Purpose	<p>This unit standard is for people who work in the plumbing industry.</p> <p>People credited with this unit standard are able to position, install, and commission low pressure hot water supply systems.</p>
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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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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;

Plumbers, Gasfitters, and Drainlayers Act 2006;

Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <https://www.standards.govt.nz>:

AS/NZS 3500.4:2021 *Plumbing and drainage, Part 4: Heated water services*,

NZS 3604:2011 *Timber-framed buildings*;

NZS 4305:1996 *Energy efficiency – Domestic type hot water systems*.

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 B1 Structure,

New Zealand Building Code Clause B2 Durability,

New Zealand Building Code Clause G10 Piped Services,

New Zealand Building Code Clause G12 Water Supplies,

New Zealand Building Code Clause H1 Energy Efficiency.

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

Hot water supply systems refer to low pressure systems, which include open vented, valve vented, controlled and uncontrolled heat sources, and push through systems; and mains pressure systems.

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.

Low pressure refers to hot water supply systems less than or equal to 120 kilopascals.

- 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**
Evidence is required for two new low pressure systems. These must be for new installations, or changes from one system type to another. This does not include a like-for-like replacement.
- 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

Position, install, and commission low pressure hot water supply systems.

Performance criteria

- 1.1 Select appropriate hot water supply systems.
- 1.2 Position low pressure hot water supply systems to the specified measurements.
- 1.3 Install hot water supply systems.
- 1.4 Connect hot water supply systems to connection and termination points.
- 1.5 Carry out soundness tests and commissioning.
- 1.6 Protect hot water supply systems.

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	30 May 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 Waihangara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.