

Title	Position, install, commission, and maintain low pressure hot water supply systems		
Level	4	Credits	7

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:</p> <ul style="list-style-type: none"> – position install and commission low pressure hot water supply systems; and – maintain low pressure hot water supply systems.
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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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Available grade	Achieved
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Guidance Information

- References**

Building Act 2004;
Health Act 1956;
Health and Safety at Work Act 2015;
Plumbers, Gasfitters, and Drainlayers Act 2006;
Plumbers, Gasfitters, and Drainlayers Regulations 2010
Water Supplies Protection Regulations 1961;
The following standards, which are available at <https://www.standards.govt.nz>:
AS/NZS 3500.4:2015 *Plumbing and drainage – Part 4 Heated water services*,
NZS 3604:2011 *Timber framed buildings*;
The following clauses, current versions, 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 G12 Water Supplies;
and all subsequent amendments and replacements.
- This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.
- 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.
- Definitions**

Hot water supply systems – low pressure systems, which include open vented, valve vented, wet back, and push through systems; and mains pressure systems.
For the purposes of this unit standard evidence is required for low pressure systems.

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.

Low pressure – storage water heaters less than or equal to 120 kilopascals.

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

Other services – any existing installed services such as water, gas, electricity, or telephone network cables.

- 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, environment, other services, materials, tools, and equipment.

Outcomes and performance criteria

Outcome 1

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

Performance criteria

- 1.1 Position low pressure hot water supply systems to measurements in accordance with job specifications and relevant standards and codes.
- 1.2 Select appropriate hot water supply systems in accordance with job specifications.
- 1.3 Install hot water supply systems in accordance with job specifications and relevant standards and codes.
- 1.4 Connect hot water supply systems to connection and termination points in accordance with job specifications and relevant standards and codes.
- 1.5 Carry out soundness tests in accordance with job specifications and relevant standards and codes.
- 1.6 Protect hot water supply systems in accordance with job specifications and relevant standards and codes.
- 1.7 Identify hot water supply systems and pipelines by label and/or colour that comply with relevant standards and codes.

Outcome 2

Maintain low pressure hot water supply systems.

Performance criteria

- 2.1 Identify faults in terms of causes and means of rectification.
- 2.2 Rectify faults in accordance with maintenance requirements, job specifications, and relevant standards and codes.

Replacement information	This unit standard and unit standard 30550 replaced unit standard 23850.
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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	26 October 2017	31 December 2028
Review	2	30 May 2024	31 December 2028

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>.