

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

1 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.

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

3 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.

4 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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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
Registration	1	26 October 2017	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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.