

<b>Title</b>	<b>Position, install, commission, and maintain mains pressure hot water supply systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<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"> <li>– position, install, and commission mains pressure hot water supply systems; and</li> <li>– maintain mains pressure hot water supply systems.</li> </ul>
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<b>Classification</b>	Plumbing, Gasfitting and Drainlaying > Plumbing
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<b>Available grade</b>	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 mains 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.

*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.

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## Outcomes and performance criteria

### Outcome 1

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

#### Performance criteria

- 1.1 Position mains 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 mains 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.

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<b>Replacement information</b>	This unit standard and unit standard 30550 replaced unit standard 23851.
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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

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.