

Title	Soft solder metal joints		
Level	2	Credits	3

Purpose	<p>This unit standard is for people who work, or intend to work, in the plumbing or gasfitting industries.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> - describe suitable metal materials to be joined by soft soldering; - demonstrate knowledge of selection of methods and materials and the concept of capillary attraction; and - prepare and soft solder metal joints.
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Classification	Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting, and Drainlaying
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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:
Health and Safety at Work Act 2015;
Building Act 2004.

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
Job requirements refer to specific requirements of the job at hand not covered by job specifications.
Job specifications, for the purpose of this unit standard, refer to instructions (oral, written, graphic) and may include any of the following: manufacturers' 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.
Other services refer to existing installed services.
- 3 Range
metal materials to be joined may include copper, galvanised steel, lead (excluding lead piping), stainless steel;
evidence of two different materials is required.

Outcomes and performance criteria

Outcome 1

Describe suitable metal materials to be joined by soft soldering.

Performance criteria

- 1.1 Suitable materials to be joined by soft soldering are described in terms of the job type, intended function and intended usage.

Outcome 2

Demonstrate knowledge of selection of methods and materials and the concept of capillary attraction.

Performance criteria

- 2.1 Selection of methods and materials is explained, according to job specifications and job requirements.
- 2.2 Capillary attraction is explained in terms of its application to soft soldering metal joints.

Outcome 3

Prepare and soft solder metal joints.

Performance criteria

- 3.1 Soldering process and materials are selected in accordance with job specifications.
- 3.2 Joints are prepared in accordance with job requirements.
- 3.3 Joints are soldered in accordance with job requirements.

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	22 July 1994	31 December 2026
Revision	2	19 June 1996	31 December 2026
Revision	3	3 April 1997	31 December 2026
Review	4	25 October 2007	31 December 2026
Review	5	12 December 2024	N/A

Consent and Moderation Requirements (CMR) reference

0008

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.