

Soft solder metal joints

Level 2

Credits 3

Purpose This unit standard is for people who work, or intend to work, in the plumbing or gasfitting industries.

People credited with this unit standard are able to: describe suitable metal products to be joined by soft soldering; select joining process and soldering materials; prepare and soft solder metal joints; work safely and with care; and demonstrate knowledge of selection of methods and materials and the concept of capillary attraction, as applied to soft soldering metal joints.

Subfield Plumbing, Gasfitting and Drainlaying

Domain Core Plumbing, Gasfitting, and Drainlaying

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation by NZQA.

Standard setting body (SSB) The Skills Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0008

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

Special notes

- 1 Legislation relevant to this unit standard includes but is not limited to:
Health and Safety in Employment Act 1992;
Building Act 2004.
Any legislation superseding the above will apply, pending review of this unit standard.
- 2 Range
products to be joined – copper, galvanised steel, lead (excluding lead piping), mild steel, stainless steel.

3 Definitions

Job requirements refers to specific requirements of the job at hand not covered by job specifications.

Job specifications, for the purpose of this unit standard, refers 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. 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.

Other services refers to existing installed services.

Elements and performance criteria

Element 1

Describe suitable metal products to be joined by soft soldering.

Performance criteria

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

Element 2

Select joining process and soldering materials.

Performance criteria

- 2.1 Joining process is selected in accordance with job specifications.
- 2.2 Soldering materials are selected in accordance with job requirements.
- Range solder, flux.

Element 3

Prepare and soft solder metal joints.

Performance criteria

- 3.1 Joints are prepared in accordance with job requirements.
- 3.2 Joints are soft soldered in accordance with job requirements.
- 3.3 Soldered joints meet job specifications.

Element 4

Work safely and with care.

Performance criteria

- 4.1 Practical activities are carried out avoiding harm to people and damage to property, other services, materials, tools, and equipment.

Element 5

Demonstrate knowledge of selection of methods and materials and the concept of capillary attraction, as applied to soft soldering metal joints.

Performance criteria

- 5.1 Selection of methods and materials is justified.
Range job specifications, job requirements.
- 5.2 The concept of capillary attraction is explained in terms of its application to soft soldering metal joints.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact The Skills Organisation info@skills.org.nz if you wish to suggest changes to the content of this unit standard.