

Demonstrate knowledge of the installation and maintenance of compressed air and vacuum services

Level 3

Credits 4

Purpose This unit standard is for people who work in the plumbing industry.

People credited with this unit standard are able to: determine the position of compressed air and vacuum services; demonstrate knowledge of the installation and maintenance of compressed air and vacuum services; and demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation and maintenance of compressed air and vacuum services.

Subfield Plumbing, Gasfitting and Drainlaying

Domain Plumbing

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

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, standards, and codes applicable to this unit standard include but are not limited to:
Health and Safety in Employment Act 1992;
Building Act 2004;
NZS 3604:1999 *Timber Framed Buildings*, available from <http://www.standards.co.nz>;
New Zealand Building Code, Clause G10 Piped Services, current version and any related compliance documents, available at <http://www.dbh.govt.nz>;

Approved Code of Practice for Pressure Equipment (Excluding Boilers) (Wellington: Department of Labour, 2001), available at <http://www.osh.govt.nz/order/catalogue>. Any legislation or code superseding any of the above will apply, pending review of this unit standard.

2 Definitions

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.

Maintenance may refer to all or any of – repair, upgrade, alteration, removal, survey.

Regulatory requirements, for the purpose of this unit standard, refers to applicable legislation, standards, and codes.

Elements and performance criteria

Element 1

Determine the position of compressed air and vacuum services.

Performance criteria

- 1.1 Compressed air and vacuum services are positioned to measurements in accordance with job specifications.

Element 2

Demonstrate knowledge of the installation of compressed air and vacuum services.

Performance criteria

- 2.1 Installation of compressed air and vacuum services is described in accordance with job specifications.
- 2.2 Installation tests are described in accordance with job specifications.

Element 3

Demonstrate knowledge of the maintenance of compressed air and vacuum services.

Performance criteria

- 3.1 Maintenance and testing of compressed air and vacuum services are described in accordance with maintenance requirements.
- 3.2 Identification of faults is described in terms of causes and possible means of rectification.

- 3.3 Rectification of faults is described in accordance with maintenance requirements and job specifications.

Element 4

Demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation and maintenance of compressed air and vacuum services.

Performance criteria

- 4.1 Applicable sections of legislation, standards, and codes are described in terms of their application to the installation and maintenance of compressed air and vacuum services.
- 4.2 Selection of methods and materials is justified.
- Range job specifications, operation of the installed system and components; may include job requirements.
- 4.3 Underpinning concepts and principles are explained in terms of their application to the installation and maintenance of compressed air and vacuum services.
- Range atmospheric pressure, combustion, compatibility of gases, fluid volume, pressure differential.

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.