

Title	Select, describe, use, and maintain tools and testing equipment for gasfitting jobs		
Level	2	Credits	5

Purpose	<p>This unit standard has been designed to be achieved in a gasfitting context.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – describe hand tools used for gasfitting jobs; – select and use hand tools for gasfitting jobs; – maintain gasfitting hand tools; – describe portable power tools used for gasfitting jobs; – select and use portable power tools for gasfitting jobs; – maintain gasfitting portable power tools; and – demonstrate and explain use of common gasfitting testing equipment.
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Classification	Plumbing, Gasfitting and Drainlaying > Gasfitting
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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;
Health and Safety at Work Regulations 2016.

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

Gasfitting environment refers to any workplace or context where work or activities related to the gasfitting sector take place, such as school workshops, training establishments, outdoor areas, and industry placement workplaces.

Gasfitting jobs refer to work undertaken in a gasfitting environment under general supervision, using a range of tools, equipment and materials, and involving standard processes.

Workplace practice refers to procedures specific to a gasfitting environment, which cover the standard and required practices of that environment.

3 Assessment information

Assessment against this unit standard may occur in any gasfitting environment.

Regarding the performance criteria in Outcome 7, some of these require explanation of, rather than demonstration of, the use of testing equipment. The reason for this is to protect candidates from exposure to risk they may not yet be trained to manage.

Outcomes and performance criteria

Outcome 1

Describe hand tools used for gasfitting jobs.

Range at least three different hand tools.

Performance criteria

- 1.1 Describe the safe use of each hand tool in terms of the work to be completed and personal protective equipment to be used.
- 1.2 Describe reporting requirements for damaged, blunt, or faulty hand tools in accordance with workplace practice.

Outcome 2

Select and use hand tools for gasfitting jobs.

Range at least three different hand tools.

Performance criteria

- 2.1 Select hand tools to meet identified job requirements.
- 2.2 Use hand tools to complete work in accordance with job requirements.
- 2.3 Use hand tools in accordance with manufacturer instructions, materials being used, and workplace practice.

Outcome 3

Maintain gasfitting hand tools.

Range at least three different hand tools.

Performance criteria

- 3.1 Keep hand tools clean, and store and maintain them in accordance with manufacturer instructions and workplace practice.
- 3.2 Report damaged, blunt, or faulty hand tools in accordance with workplace practice.

Outcome 4

Describe portable power tools used for gasfitting jobs.

Range at least three different portable power tools.

Performance criteria

- 4.1 Describe the safe use of selected portable power tools in terms of the work to be completed, manufacturer instructions, and workplace safety requirements.
- 4.2 Describe reporting requirements for damaged or faulty portable power tools, in accordance with workplace practice.

Outcome 5

Select and use portable power tools for gasfitting jobs.

Range three different portable power tools.

Performance criteria

- 5.1 Select portable power tools to meet identified job requirements.
- 5.2 Inspect, set up, and use all electrical cords and connections in accordance with manufacturer instructions and workplace practice.
- 5.3 Use portable power tools to complete work to meet job requirements.
- 5.4 Use portable power tools in accordance with manufacturer instructions, materials being used, and workplace safety requirements.

Outcome 6

Maintain gasfitting portable power tools.

Range at least three different portable power tools.

Performance criteria

- 6.1 Demonstrate maintenance procedures in accordance with manufacturer instructions and workplace practice.
- 6.2 Keep portable power tools clean, and store and maintain them in accordance with manufacturer instructions and workplace practice.
- 6.3 Report damaged or faulty portable power tools in accordance with workplace practice.

Outcome 7

Demonstrate and explain use of common gasfitting testing equipment.

Performance criteria

- 7.1 Demonstrate use of a water filled manometer.
Range how to read, how to interpret pressure drop.
- 7.2 Demonstrate use of a digital manometer.
Range how to read, how to interpret pressure drop, need for re-calibration.
- 7.3 Demonstrate use of a flue draft testing manometer.
Range how to read, how to interpret pressure drop, how to interpret pressure rise, need for re-calibration.
- 7.4 Demonstrate use of leak detector solution.
- 7.5 Explain use of an electronic gas detector.
Range limitations, need for calibration.
- 7.6 Explain use of a flue gas analyser.
Range when is one used, how to interpret simulated readings.
- 7.7 Explain use of carbon monoxide testing equipment.
Range when it is used, how to interpret simulated readings.
- 7.8 Explain use of a mercury, digital, and infrared thermometer.
Range when each one is used, how to interpret simulated readings.

Replacement information	This unit standard replaced unit standard 2114 and unit standard 2115.
Planned review date	31 December 2029

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 November 2017	31 December 2028
Review	2	25 July 2024	N/A

Consent and Moderation Requirements (CMR) reference

0003

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.