

Title	Demonstrate knowledge of flow stopping in a gas network		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate knowledge of flow stopping techniques, their application and limiting factors; and describe flow stopping operations in a gas network.
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Classification	Gas Industry > Gas Network Construction
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Available grade	Achieved
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Guidance Information

- 1 This unit standard is intended for, but not limited to, workplace assessment. The range statements relate to enterprise specific equipment, procedures, and processes.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, company procedures and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of:
 - Health and Safety at Work Act 2015;
 - Health and Safety in Employment (Pipelines) Regulations 1999;
 - Gas Act 1992;
 - Gas (Safety and Measurement) Regulations 2010;
 - Resource Management Act 1991;
 - Hazardous Substances and New Organisms Act 1996;
 - AS/NZS 4645. *Gas distribution networks*;
 - AS/NZS 4645.2:2008 *Gas distribution networks – Steel pipe systems*;
 - AS/NZS 4645.3:2008 *Gas distribution networks – Plastic pipe systems*;
 - AS 2885. *Pipelines – Gas and liquid petroleum*;
 - and any subsequent amendments and replacements.
- 4 References
 - Australian standards (AS) may be found at www.standards.org.au;
 - Australian/New Zealand standards (AS/NZS) may be found at www.standards.govt.nz.
- 5 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

6 Definition

Company procedures mean the documented methods for performing work activities, and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of flow stopping techniques, their application and limiting factors.

Performance criteria

1.1 Flow stopping techniques are identified according to their gas industry application.

Range isolation valves, squeeze off, bag stop, stopple.

1.2 Flow stopping technique limiting factors are identified and described.

Range pipe material, pipe size, pipe operating pressure, pipe condition.

Outcome 2

Describe flow stopping operations in a gas network.

Performance criteria

2.1 Flow stopping techniques are described according to basic principles of operation.

Range isolation valves, squeeze off, bag stop, stopple.

2.2 Flow stopping operations are described according to potential hazards associated with incorrect application of equipment, and the steps to avoid them are described.

Range potential hazards may include – uncontrolled gas release, inadequate isolation, failure of sealing element, incorrect valve operation, supply interruption, pipe damage, static electricity, pneumatic energy release; evidence of five potential hazards is required; steps to avoid them may include – double block & bleed, controlled venting, bypass, valve lock and tag, locking device, limiting device, continuity bond, restraint, exclusion zones; evidence of five different controls is required.

Replacement information	This unit standard replaced unit standard 25607 and unit standard 25611.
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Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 August 2017	31 December 2021
Review	2	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.