

Title	Check and maintain in-line valves in a gas pipeline		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: demonstrate knowledge of documentation, company procedures, hazards, and equipment for conducting in-line valve checks; prepare for and carry out in-line gas valve checks and maintenance; and complete reporting and documentation.
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Classification	Gas Industry > Gas Network Operations
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Available grade	Achieved
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Guidance Information

- 1 This unit standard is intended for, but is 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 the Health and Safety at Work Act 2015;
AS/NZS 4645.1:2018 *Gas distribution networks – Network management*;
AS/NZS 4645.2:2018 *Gas distribution networks – Steel pipe systems*;
AS/NZS 4645.3:2018 *Gas distribution networks – Plastics pipe systems*;
AS 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;
AS 2885.3-2018 *Pipelines – Gas and liquid petroleum Operation and maintenance*;
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 If working in a valve pit the candidate must comply with safety and company requirements for working in a confined space. The recommended standard for this is AS/NZS 2865:2001 *Safe working in a confined space*.
- 7 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 documentation, company procedures, hazards, and equipment for conducting in-line valve checks.

Performance criteria

- 1.1 Documentation and company procedures for conducting in-line valve checks are located and interpreted.
- Range may include – company standard, safe work procedure, operating procedure, maintenance procedure, work instruction, equipment operating manual, job hazard analysis, job risk assessment.
- 1.2 Documentation and instructions for a specified job are confirmed.
- Range may include – site location, plans, consents, easement conditions, valve maintenance records, permits traffic management plan.
- 1.3 Potential environmental and safety hazards and controls are described.
- Range hazards may include – confined space, gas release, loss of supply, traffic and pedestrians, personal injury, vegetation; controls may include – signage, barriers, personal protective equipment, safe access and egress, permits, temporary traffic control, atmosphere monitoring equipment, vegetation control.
- 1.4 Equipment and materials for conducting in-line valve checks are described.
- Range gas detector, valve key, grease gun, valve grease, valve chamber, lid lifter.
- 1.5 Potential faults associated with incorrect application and operation of equipment and the steps to avoid them are described.

Outcome 2

Prepare for and carry out in-line gas valve checks and maintenance.

Performance criteria

2.1 Safety and environmental hazards are identified and controlled.

Range hazards may include – confined space, gas release, loss of supply, public, vehicles, personal injury, vegetation; controls may include – signage, barriers, personal protective equipment, safe access and egress, temporary traffic control, permits, atmosphere monitoring equipment, vegetation control.

2.2 In-line gas valve is located.

Range may include – drawings, plans, mapping systems, markers, valve maintenance records, valve identifiers.

2.3 Equipment and materials are prepared and positioned.

Range may include – gas detector, valve key, grease gun, valve grease, valve chamber lid lifter.

2.4 Valve is checked and maintained.

Range may include – leaks, position at start of operation, spindle, valve sleeve, key, position at completion of operation, cleaned, greased.

2.5 Valve chamber and lid are maintained.

Outcome 3

Complete reporting and documentation.

Performance criteria

3.1 Records and documents are completed and processed, and information is communicated to internal and external parties as requested.

Range may include – special conditions, completion notice, additional work, as-built record, test results, inspection results.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 November 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	22 October 2002	31 December 2018
Review	4	20 November 2006	31 December 2018
Review	5	17 August 2017	31 December 2023
Review	6	27 May 2021	N/A

Consent and Moderation Requirements (CMR) reference

0014

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.