

Title	Operate pressure gauges and monitoring equipment in a gas network		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to, in a gas network: demonstrate knowledge of procedures, documentation, and equipment for monitoring pressures; prepare for and operate pressure gauges and monitoring equipment; and complete documentation and reporting.
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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:
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 – Plastic pipe systems*;
AS 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;
AS 2885.3-2012 *Pipelines – Gas and liquid petroleum Operation and maintenance*;
NZS 5259:2015 *Gas measurement*;
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;
New Zealand standards (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 procedures, documentation, and equipment for monitoring pressures in a gas network.

Performance criteria

- 1.1 Documentation and company procedures for using pressure and monitoring equipment are located and interpreted in relation to specified job requirements.
- 1.2 Job instructions are confirmed.
- Range instructions include – site location, asset type, pressure conditions and monitoring duration.
- 1.3 Potential environmental and safety hazards are identified and controlled.
- Range hazards may include – gas release, hazardous areas, other utilities, excavations, pressure release, traffic and general public; evidence of four hazards is required; controls may include – signage, barriers, personal protective equipment, safe access and egress, temporary traffic control, intrinsically safe equipment, environmental protection; evidence of four different controls is required.
- 1.4 Types and function of pressure monitoring equipment, components, and materials are identified and described.
- Range types may include – hoses, analogue gauges, digital gauges data loggers; function may include – absolute pressure, gauge pressure, differential pressure, maximum pressure, minimum pressure, static pressure, dynamic pressure.
- 1.5 Potential errors associated with incorrect application and operation of equipment and procedures, and the steps to avoid them are described.
- Range errors may include – incorrect equipment pressure range, equipment out of calibration, incorrect accuracy range, adiabatic effect; steps may include – equipment calibration, equipment selection, stabilisation, zeroing, allowable tolerances.

Outcome 2

Prepare for and operate pressure gauges and monitoring equipment in a gas network.

Performance criteria

- 2.1 Pressure gauges and monitoring equipment, and materials are prepared, handled and positioned.
- 2.2 Monitoring equipment is operated.

Outcome 3

Complete documentation and reporting.

Performance criteria

- 3.1 Information is communicated to internal and external parties.
- Range may include – records, special conditions, completion notice, additional work.
- 3.2 Records and documents are completed and processed.

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	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 2020
Review	5	17 August 2017	31 December 2021
Revision	6	30 August 2018	31 December 2021
Review	7	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.