

Title	Make temporary repairs of gas escapes in a gas network		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of documentation, company procedures, hazards and equipment for temporary repairs to gas networks; prepare for and make temporary repairs to a gas network; 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;
 - Gas Act 1992;
 - NZS 5259:2015 Gas measurement;
 - 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*;
 - 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 Evidence is required of temporary repairs above ground and below ground.

7 Definitions

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.

Temporary repair refers to making safe in an emergency situation. Examples of this may include isolating a regulator stream, clamping, crimping, and wrapping.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of documentation, company procedures, hazards, and equipment for temporary repairs to gas networks.

Performance criteria

1.1 Documentation and company procedures for temporary repairs to gas networks 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 instructions may include – job card, site location, network drawings, utility plans, mark-outs, consents, easement conditions.

1.3 Potential safety hazards and controls are described.

Range hazards may include – fire, explosion, asphyxiation, excavations, gas escapes;
controls may include – signage, barriers, personal protective equipment, safe access and egress, temporary traffic control, environmental protection.

1.4 Types and function of equipment, components, and materials for temporary repairs to gas networks are identified and described.

Range collars, clamps, sleeves, couplings, wrapping materials, specialist tools, gaskets, sealants.

1.5 Potential faults associated with incorrect application and operation of equipment and procedures, and the steps to avoid them are described.

Outcome 2

Prepare for and make temporary repairs to a gas network.

Performance criteria

2.1 Equipment and fittings are checked and prepared.

Range checks include – size, compliance with relevant AS/NZS or NZS, pressure range, material composition.

2.2 Pipeline and piping facilities are cleaned and prepared.

Range may include – cast iron, polyethylene, steel, nylon, fibrolite.

2.3 Temporary repairs to a gas network are made.

Range may include – crimping, jointing, anaerobic sealant methods, caulking repairs, leak clamping, temporary wrapping, part replacement, isolation.

2.4 Repair is tested for soundness.

Range liquid leak detection, gas detection equipment, pressure test.

Outcome 4

Complete reporting and documentation.

Performance criteria

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

Range may include – as-built drawing, special conditions, completion notice, additional work, incident report.

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	22 October 2002	31 December 2018
Review	2	20 November 2006	31 December 2020
Review	3	17 August 2017	31 December 2023
Revision	4	30 August 2018	31 December 2023
Review	5	27 May 2021	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.