

Title	Isolate and tag plant and equipment, and remove danger tags, in a gas network		
Level	4	Credits	3

Purpose	People credited with this unit standard are, in a gas network, able to: demonstrate knowledge of isolating and tagging plant and equipment; isolate piped sources of energy and install danger tags; complete danger tag labelling for isolating sources of energy and installing danger tags in a gas network; and remove danger tags.
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Classification	Gas Industry > Gas Transmission Operations
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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 the:
 - Health and Safety at Work Act 2015;
 - Health and Safety in Employment (Pipelines) Regulations 1999;
 - Gas (Safety and Measurement) Regulations 2010;
 - and any subsequent amendments and replacements.
- 4 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.
- 5 This procedure covers the isolation of potentially hazardous sources of energy and the use of Do Not Operate tags (danger tags). It includes the use and removal of these tags to facilitate the safe completion of repairs, maintenance, and operations. Danger tags should be weatherproof tags with waterproof markers and plastic cable ties, where possible.
- 6 Isolation of electrical circuits or equipment and installation of danger tags must be completed by a person holding a minimum of a Limited Certificate issued by the

Electrical Workers Registration Board <http://www.ewrb.govt.nz/> and is not covered in this unit standard.

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.

Line rated means designed for the full, maximum design pressure of the equipment into which it will be installed.

Positively isolated refers to totally isolating equipment or a section of the plant from a live process where in no leakage is tolerated due to the risks involved.

Spades refer to a circular metal plate that is bolted between two pipe flanges, used to block the flow path in a pipeline.

Blind flanges refer to a flat flange, with no hole through the centre, that bolts to the flanged end of a run of pipe.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of isolating and tagging plant and equipment in a gas network.

Performance criteria

1.1 Reasons for isolating and tagging plant and equipment are described.

Range maintenance, repairs, non-routine operation.

1.2 Information on a danger tag is described.

1.3 Isolation methods are described.

Range may include – line rated blind flanges, line rated spades, valves, double block and bleed valves.

Outcome 2

Isolate piped sources of energy and install danger tags in a gas network.

Performance criteria

2.1 Pipes are positively isolated, and danger tags are installed.

Range isolation may include – line rated blind flanges, line rated spades, valves, double block and bleed valves.

Outcome 3

Complete danger tag labelling for isolating sources of energy and installing danger tags in a gas network.

Performance criteria

3.1 Danger tag labelling is completed.

Range may include – contact name, contact number, date, reason for placement, permit or tag number, status, expected completion.

Outcome 4

Remove danger tags in a gas network.

Performance criteria

4.1 Danger tags are removed at the conclusion of the operations that required isolation.

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 May 2009	31 December 2020
Review	2	17 August 2017	31 December 2023
Revision	3	30 August 2018	31 December 2023
Review	4	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.