

<b>Title</b>	<b>Squeeze off a polyethylene pipe in a gas network</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of documentation, company procedures, hazards and equipment for polyethylene pipe squeeze-off; prepare to and squeeze off a polyethylene pipe; and complete reporting and documentation.
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<b>Classification</b>	Gas Industry > Gas Network Construction
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<b>Available grade</b>	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;  
Resource Management Act 1991;  
AS/NZS 4645.1:2008 *Gas distribution networks – Network management*;  
AS/NZS 4645.3:2008 *Gas distribution networks – Plastics pipe systems*;  
WorkSafe NZ's *Excavation Safety good practice guidelines 2016 ISBN 978-0-908336-49-4* ([online](#));  
and any subsequent amendments and replacements.
- 4 References  
Australian standards (AS) may be found at [www.standards.org.au](http://www.standards.org.au);  
Australian/New Zealand standards (AS/NZS) may be found at [www.standards.govt.nz](http://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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of documentation, company procedures, hazards and equipment for polyethylene pipe squeeze-off.

### Performance criteria

1.1 Documentation and company procedures for polyethelene pipe squeeze-offs and permitted applications are located and interpreted.

Range documentation may include – network standard, equipment operating manuals, standard operating procedure, safe working procedures, job hazard analysis, job risk assessment; permitted applications include – single squeeze, double squeeze, emergency squeeze.

1.2 Documentation for a specified job is obtained.

Range may include – site location, utility plans, mark-outs consents, easements.

1.3 Potential environmental and safety hazards and controls are described.

Range hazards may include – gas release, other utilities, excavations, loss of supply, manual handling, hydraulic oil; controls may include – gas detection, signage, barriers, personal protective equipment, system pressure monitoring, temporary bypass, safe access and egress, environmental protection; evidence of four hazards and controls are required.

1.4 Types of squeeze-off equipment and components are identified and described.

Range equipment – manual, hydraulic; components – squeeze bars, limiting devices, locking device, pump, hydraulic ram, hoses.

1.5 Potential hazards of incorrect application and operation of squeeze-off equipment, and the steps to avoid them are described.

**Outcome 2**

Prepare to and squeeze off a polyethylene pipe.

Range evidence of one manual squeeze off and one hydraulic squeeze off are required.

**Performance criteria**

2.1 Safety and environmental hazards are identified, and controlled.

Range hazards may include – gas release, other utilities, excavations, loss of supply, manual handling, hydraulic oil;  
controls may include – gas detection, signage, barriers, personal protective equipment, system pressure monitoring, temporary bypass, safe access and egress, environmental protection.

2.2 Polyethelene pipe is prepared for squeeze off.

Range may include – excavation, cleaning, temporary bypass, pressure monitoring points.

2.3 Squeeze-off equipment is prepared, handled, and positioned.

2.4 Pipe is squeezed off and network pressure is monitored, if required.

2.5 Effectiveness of squeeze-off is checked.

2.6 Squeeze-off equipment is removed, flow-stopping point is marked, and pipe is re-rounded and reinforcement clamps installed, if required.

**Outcome 3**

Complete reporting and documentation.

**Performance criteria**

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

Range may include – special conditions, completion notice, additional work, as-built drawings.

<b>Planned review date</b>	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	25 June 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	22 October 2002	31 December 2018
Rollover and Revision	4	20 November 2006	31 December 2020
Review	5	17 August 2017	31 December 2023
Revision	6	30 August 2018	31 December 2023
Review	7	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.