

<b>Title</b>	<b>Decommission and disconnect a gas main or service 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 company procedures, documentation, hazards and equipment for decommissioning and disconnecting a gas main or service; prepare to decommission and disconnect a gas main or service; decommission and disconnect a gas main or service; 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 4645.1:2018 *Gas distribution networks – Network management*;  
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](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 company procedures, documentation, hazards, and equipment for decommissioning and disconnecting a gas main and service.

### Performance criteria

- 1.1 Company procedures for decommissioning and disconnecting a gas main and service 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 obtained.
- Range may include – site location, job card, network drawings, network pressure monitoring, utility plans, consents, easements conditions, cathodic protection requirements, welding procedure and testing requirements.
- 1.3 Methods of isolation for disconnecting mains and services are described.
- Range equal tee, polyethylene saddle tee, mechanical saddle tee, steel self-tapping tee, welded punch tee, valve, squeeze-off, flow stopping.
- 1.4 Potential environmental and safety hazards and their controls associated with decommissioning and disconnecting a main and service are described.
- Range hazards may include – gas release, flames, excavations, confined spaces, stuck pig, pneumatic release, contaminants, noise, vehicles and public, static electricity, electrical current; controls may include – temporary traffic control, signage, barriers, personal protective equipment, safe access and egress, pressure restraint, anchoring, exclusion zones, continuity bond, environmental protection, waste disposal; evidence of six hazards and their controls are required.

- 1.5 Decommissioning and disconnecting equipment and materials are described.
- Range test gauge, air compressor, inert gas supply, test piece, leak detection equipment, purge stack, flare stack, gas detection equipment, hoses, anchors or restraints, continuity bond, earthing equipment, fire extinguisher, end caps.
- 1.6 Potential hazards of incorrect application and operation of decommissioning and disconnecting equipment and procedures are described.

## Outcome 2

Prepare to decommission and disconnect a gas main or service.

### Performance criteria

- 2.1 Hazards for the specified job are identified and controlled.
- 2.2 Decommissioning and disconnection equipment and materials are prepared and positioned.
- Range may include – pressure gauges, test gauge, air compressor, inert gas supply, test piece, leak detection equipment, purge stack, flare stack, gas detection equipment, continuity bond, earthing equipment, tools, fittings, hoses, anchors or restraints, fire extinguisher.

## Outcome 3

Decommission and disconnect a gas main or service.

### Performance criteria

- 3.1 Flow of gas to main or service to be decommissioned is stopped.
- 3.2 Isolated pipe section is depressurised.
- 3.3 Purging is carried out and pressure and flow conditions are monitored until the required gas free conditions are confirmed at the purge outlet.
- Range may include – vented, flared, direct purge, indirect purge.
- 3.4 The section of pipe to be removed is cut out and disposed of.
- 3.5 Pipe ends are sealed.
- 3.6 Flow-stopping equipment and purge equipment is removed, if required, and live pipe end/s are tested for soundness.

**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 – job card, test results, as-built records, special conditions, completion notice, additional work.

<b>Replacement information</b>	This unit standard replaced unit standard 30372.
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<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	27 May 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.