Title	**Restore supply and recommission a low capacity installation after an interruption 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 restoring gas supply and recommissioning a low capacity installation after an interruption; prepare for and restore gas supply, and recommission a low capacity installation after an interruption; and complete reporting and documentation.

Classification	Gas Industry > Gas Network Operations

Available grade	Achieved

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 Act 1992;
Gas (Safety and Measurement) Regulations 2010;
Resource Management Act 1991;
Hazardous Substances and New Organisms Act 1996;
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*;
AS/NZS 5601.1:2013 *Gas installations Part 1: General installations*;
NZS 5262:2003 *Gas appliance safety*;
GIP0001 *Gas Industry Disconnection and Reconnection Protocol;*
and any subsequent amendments and replacements.

4 References
Australian/New Zealand standards (AS/NZS) may be found at www.standards.govt.nz;
Gas Industry Protocols (GIP) may be found by contacting the Gas Association of New Zealand www.gasnz.org.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 This unit standard is intended for the testing, purging, and reinstatement after interrupted supply. It does not cover the certification of installations.

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.
Gas appliance in this unit standard refer to appliances with a gas input below 250MJ/h.
Low capacity gas measurement system includes filtration, pressure control, pressure protection and meters up to and including 25 cubic metres per hour (G16).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of documentation, company procedures, hazards and equipment for restoring gas supply and recommissioning a low capacity installation after an interruption.

Performance criteria

1.1 Documentation and company procedures for restoring gas supply and recommissioning a low capacity installation after an interruption 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 The purpose of the Gas (Safety and Measurement) Regulations 2010 and industry protocols are explained with reference to recommissioning a low capacity installation after an interruption.

1.3 Documentation and instructions for a specified job are confirmed.

Range may include – job card, site location, network drawing, consumer liaison, authorisation.

1.4 Potential safety hazards and controls are described.

Range hazards may include – live gas, access limitations, animals, public, working at heights, confined spaces, electrical voltage;
controls may include – personal protective equipment, safe access and egress, pedestrian control, continuity bonds.

1.5 Gas installation safety requirements are explained.

Range appliance location, improper flame combustion, gas appliance condition, proximity of combustible material, flues, ventilation, inlet valve let-by, installation drop test, bleed pressure, lockup, isolation of smart meters.

1.6 Types and function of equipment, components, and materials for restoring supply and recommissioning a low capacity installation after an interruption are described.

Range equipment – test gauge, liquid leak detector, gas detector, fittings, continuity bond, ignition source;
function – pressure testing, leak detection, sealing, electrical continuity.

1.7 Potential hazards of incorrect application and operation of equipment and procedures, and the steps to avoid them are described.

Outcome 2

Prepare for and restore gas supply and recommission a low capacity installation after an interruption.

Performance criteria

2.1 Safety and environmental hazards are identified and controlled.

Range hazards may include – live gas, access limitations, animals, public, working at heights, confined spaces, electrical voltage;
controls may include –personal protective equipment, safe access and egress, pedestrian control, continuity bonds.

2.2 Equipment is prepared.

Range may include – gauges, gas detection equipment, test fitting.

2.3 The installation is pressure tested for soundness.

Range inlet valve let-by, bleed pressure, installation drop test, lockup.

2.4 Unsafe installations are identified and isolated, if required.

Range may include – leak, soot, yellow flame, appliance location, missing flue, passing valve.

2.5 Gas installation pipe work is purged.

2.6 Gas appliance relighting is carried out.

Outcome 3

Complete reporting and documentation.

Performance criteria

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

Range may include – special conditions, completion notice, additional work, test result.

Replacement information	This unit standard replaced unit standard 19550 and unit standard 23089.

Planned review date	31 December 2025

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 August 2017	31 December 2023
Review	2	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 if you wish to suggest changes to the content of this unit standard.