

## National Certificate in Gas Network Operations (Leakage Control) (Level 3)

**Level** 3

**Credits** 114

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2020.

This qualification has been replaced by the New Zealand Certificate in Reticulated Gas Pipelines (Level 4) with strands in Metering and Pressure Control, Polyethylene Pipelines, and Steel Pipelines and an optional strand in Gas Incident Response [Ref: 3593].

### Transition Arrangements

The last date for entry into programmes leading to this qualification is 31 December 2018. The last date for assessment is 31 December 2020, at which time the qualification will be discontinued.

People currently working towards this qualification may complete its requirements by the date specified above or transfer to a programme of study or training leading to the replacement qualification.

It is anticipated that no existing candidates will be disadvantaged by these transition arrangements. However, anyone who feels that they have been disadvantaged may appeal to the Standard Setting body at the address below.

For detailed information see [Review Summaries](#) on the NZQA website.

### NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	November 1997	December 2004
Review	2	June 2003	December 2006
Revision	3	June 2004	December 2010
Revision	4	May 2005	December 2010
Review	5	October 2007	December 2012
Revision	6	September 2008	December 2012
Revision	7	July 2010	December 2020
Republished	7	January 2014	December 2020
Review	8	April 2017	December 2020

### Standard Setting Body

NZ Motor Industry Training Organisation (Incorporated) (MITO)  
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Reviewed

## National Certificate in Gas Network Operations (Leakage Control) (Level 3)

**Level** 3

**Credits** 114

### Purpose

This National Certificate is designed for people working in the network operations sector of the gas industry, and recognises the skills and knowledge required by the New Zealand gas industry for certification as a trade operative in leakage control activities.

The compulsory section recognises competence in first line emergency work, the location and repair of gas leakage, and the survey of networks for leakage. The elective sections acknowledge competence in using breathing apparatus and temporary traffic management.

This qualification contains optional standards that are not required for completion of the certificate. However, these may be considered necessary for some employment contexts within the gas industry.

This qualification builds on the prerequisite National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] and shares several standards with the National Certificate in Gas Network Construction (Service Laying) (Level 3) [Ref: 1022], and the National Certificate in Gas Network Operations (Level 3) with optional strands in Operations and Maintenance, and Field Auditing [Ref: 1328].

### Special Notes

Prerequisite: National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] or demonstrate equivalent knowledge and skills.

### Credit Range

	Compulsory	Elective 1	Elective 2	Optional
Level 2 credits	3	-	0-2	-
Level 3 credits	72	3-6	0-4	0-13
Level 4 credits	34	-	-	0-19
Level 5 credits	-	-	-	0-3
Minimum totals	109	3	2	0

## Requirements for Award of Qualification

### Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

### Summary of Requirements

- Compulsory standards
- Elective 1 – A minimum of 3 credits as specified
- Elective 2 – A minimum of 2 credits as specified

### Detailed Requirements

#### Compulsory

The following standards are required

#### Engineering and Technology > Gas Industry > Gas Network Construction

ID	Title	Level	Credit
10975	Squeeze off a polyethylene pipe in a gas distribution network	3	6
10981	Fit mechanical couplings in a gas distribution network	3	3
10984	Cut, thread, and join steel pipes in a gas distribution network	2	3
10992	Use pipe and cable locators in a gas distribution network	3	3
19546	Test, connect, and purge a main in a gas distribution network	3	8
19547	Connect, test, and purge a service in a gas distribution network	3	8
25608	Carry out a flow stopping operation on a live gas main	4	12
25611	Demonstrate knowledge of stopple equipment and operations in a gas distribution network	3	3

#### Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit
12503	Respond to and locate gas escapes in a gas distribution network	3	20

ID	Title	Level	Credit
12504	Perform and record walking leakage surveys in a gas distribution network	3	6
12507	Use gas leakage detection equipment on reticulated gas networks	3	5
19549	Make temporary repairs of gas escapes in a gas distribution network	3	5
19552	Stabilise a gas emergency site and deal with a gas-filled building	4	16

Manufacturing > Plastics Processing Technology > Plastics Fabrication

ID	Title	Level	Credit
10980	Perform electrofusion jointing on polyethylene pipe for a distribution network	4	6
25610	Demonstrate knowledge of equipment and operations for jointing polyethylene pipe for a distribution network	3	5

**Elective 1**

A minimum of 3 credits

Community and Social Services > Fire and Rescue Services > Fire and Rescue Services - Generic Fire Fighting

ID	Title	Level	Credit
3272	Wear and operate breathing apparatus in general emergencies	3	3

Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit
12526	Use fresh air distance breathing apparatus in a gas distribution network	3	3

**Elective 2**

A minimum of 2 credits

Engineering and Technology > Civil Works and Services > Civil Infrastructure Health, Safety, and Environment

ID	Title	Level	Credit
20877	Demonstrate knowledge of working safely at sites under temporary traffic management	2	1

## Engineering and Technology &gt; Highway Construction and Maintenance &gt; Temporary Traffic Management

ID	Title	Level	Credit
5627	Operate as a Traffic Controller (TC) for low volume and Level 1 roads	3	4
20878	Assist with temporary traffic management for low volume and Level 1 roads	2	1

**Optional standards**

The following standards are optional

## Health &gt; Health Studies &gt; Core Health

ID	Title	Level	Credit
6400	Manage first aid in emergency situations	3	2

## Health &gt; Occupational Health and Safety &gt; Occupational Health and Safety Practice

ID	Title	Level	Credit
18426	Demonstrate knowledge of hazards associated with confined space	3	4

## Engineering and Technology &gt; Gas Industry &gt; Gas Network Construction

ID	Title	Level	Credit
10986	Use flow-stopping bags in a gas distribution network	4	10
23087	Pig a pipeline in a gas network	4	4

## Engineering and Technology &gt; Gas Industry &gt; Gas Network Operations

ID	Title	Level	Credit
12505	Perform and record vehicle leakage surveys in a gas distribution network	3	7

## Engineering and Technology &gt; Gas Industry &gt; Gas Transmission Operations

ID	Title	Level	Credit
9550	Perform basic pipe wrapping on a steel pipeline	4	3

## Engineering and Technology &gt; Highway Construction and Maintenance &gt; Temporary Traffic Management

ID	Title	Level	Credit
5628	Operate as a Site Traffic Management Supervisor (STMS) for low volume and Level 1 roads	5	3

## Engineering and Technology &gt; Petrochemical Industry &gt; Petrochemical Cathodic Protection

ID	Title	Level	Credit
9575	Explain the purpose and application of cathodic protection in a petrochemical workplace	4	2

## Transition Arrangements

### Version 7

Version 7 of this qualification was issued to update reviewed standard details, and subsequently republished to include reverse transition arrangements for expiring standard 6400.

Changes to structure and content

- expiring compulsory standard 10985 was replaced by standard 25608;
- standard 25610 was added to the compulsory section as it is recommended for entry to standard 10980;
- standard 25611 was added to the compulsory section as it is prerequisite for entry to standard 25608;
- classifications, titles, levels and credits of reviewed standards were updated;
- total credits increased from 97 to 114; and
- the prerequisite and pathways diagrams were updated.

For detailed information see [Review Summaries](#) on the NZQA website.

This qualification contains a standard that will expire in December 2015. For the purposes of this qualification, people who have gained credit for the replacement standards are exempt from the requirement to gain credit for the expiring standard – see table below.

Credit for	Exempt from
26551, 26552	6400

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expired standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
10971	19546
10973	19547
12499, 12500	19552

All new trainees will be enrolled in programmes leading to the new version of the qualification.

People working towards version 5 or 6 of the qualification may complete the requirements of that version or transfer to version 7. People currently working toward version 3 or 4 of the qualification may either complete the requirements for that version by December 2010 or transfer existing credits to version 7.

The above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to NZ Motor Industry Training Organisation (Incorporated) at the address below.

### **Previous versions of the qualification**

Version 6 was issued to include an elective to allow people who have gained credit for standard 5627 to use that standard to satisfy the traffic management component of this qualification. Standards 20877 and 20878 were moved from the compulsory to the new Elective 2 and standard 5627 was added to Elective 2.

Version 5 was issued following the planned review of the qualification and taking account of a review of gas industry standards, New Zealand gas industry competency requirements, and feedback from industry, assessors, and providers. Changes to structure and content included: the recommended for entry award of the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] was removed; standards 19546, 19549, 20877, and 20878 were added to compulsory, standard 10985 was moved from optional to compulsory, and standards 1099, 3490, 12450, and 12522 were removed from compulsory; standards 12510, 12518, and 17602 were removed from optional; standards 6400 and 18426 were moved from compulsory to optional; standards 9550, 9575, and 23087 were added to optional; titles and levels of standards were updated; total credits increased from 96 to 97; a prerequisite diagram was added; and the qualification pathway diagram was updated.

Version 4 was issued to update Temporary Traffic Management standards.

Version 3 was issued following the review of the Fire and Rescue Services standards. Titles and credit values of reviewed standards were updated; the prior award of the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] was changed from a requirement for award to recommended; and the qualification pathway diagram was updated. The Standard Setting Body information was updated to take account of the amalgamation of the Gas and Petrochemical Industry Training Organisation with the NZ Motor Industry Training Organisation (Incorporated).

Version 2 was issued following the review of the gas industry standards. Changes to structure and content included: the addition of optional standards; titles and credit values of reviewed standards updated; prior award of the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] included in qualification requirements; minimum credit total increased from 86 to 96.

### **Other standard setting bodies whose standards are included in the qualification**

Fire and Rescue Services Industry Training Organisation



Infrastructure ITO  
 New Zealand Industry Training Organisation  
 NZQA

## Certification

This certificate will display the logos of NZQA, the NZ Motor Industry Training Organisation (Incorporated), and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification.

## Classification

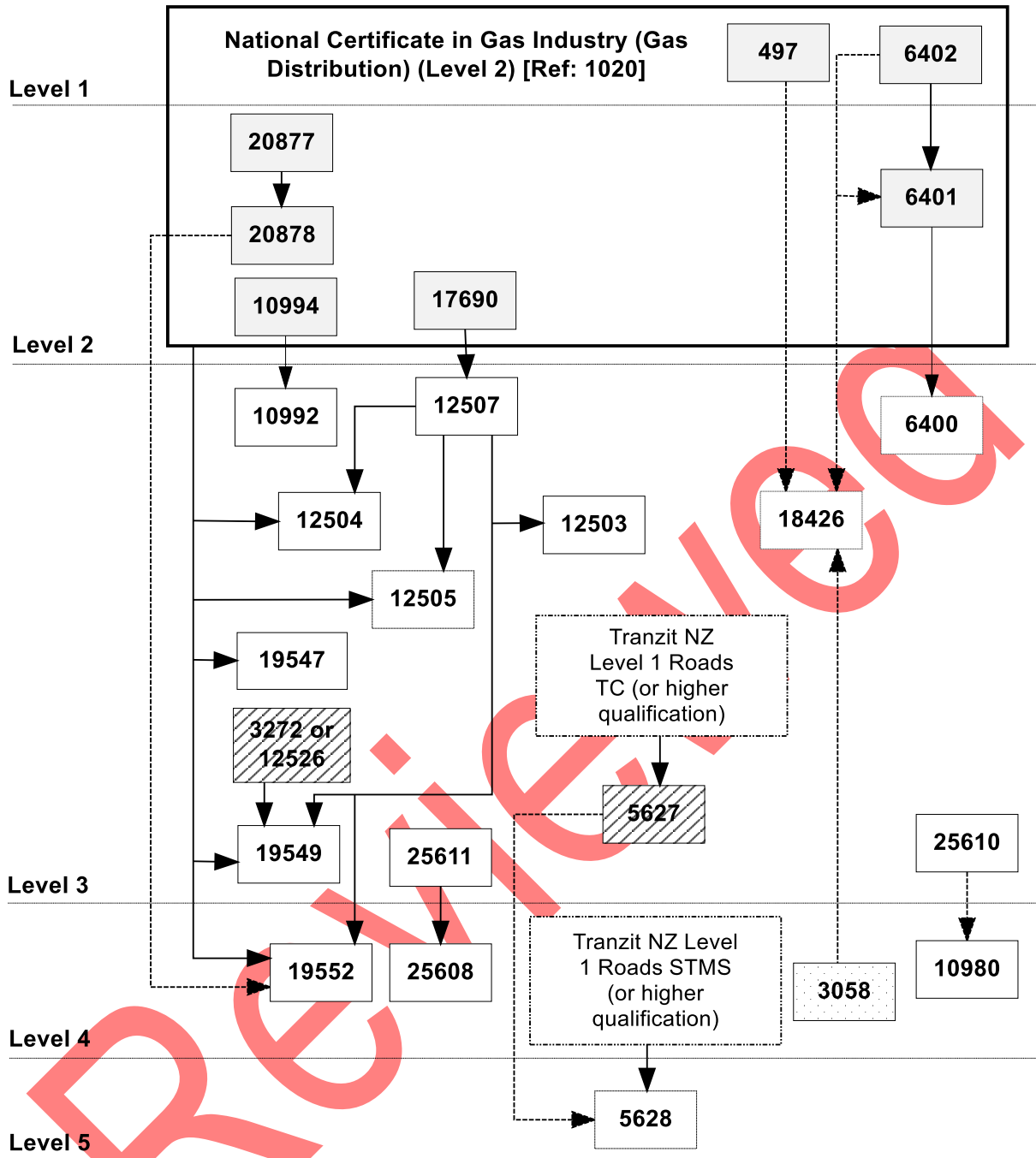
This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
1379	Engineering and Technology > Gas Industry > Gas Network Operations	039999	Engineering and Related Technologies > Other Engineering and Related Technologies > Engineering and Related Technologies not elsewhere classified

### Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

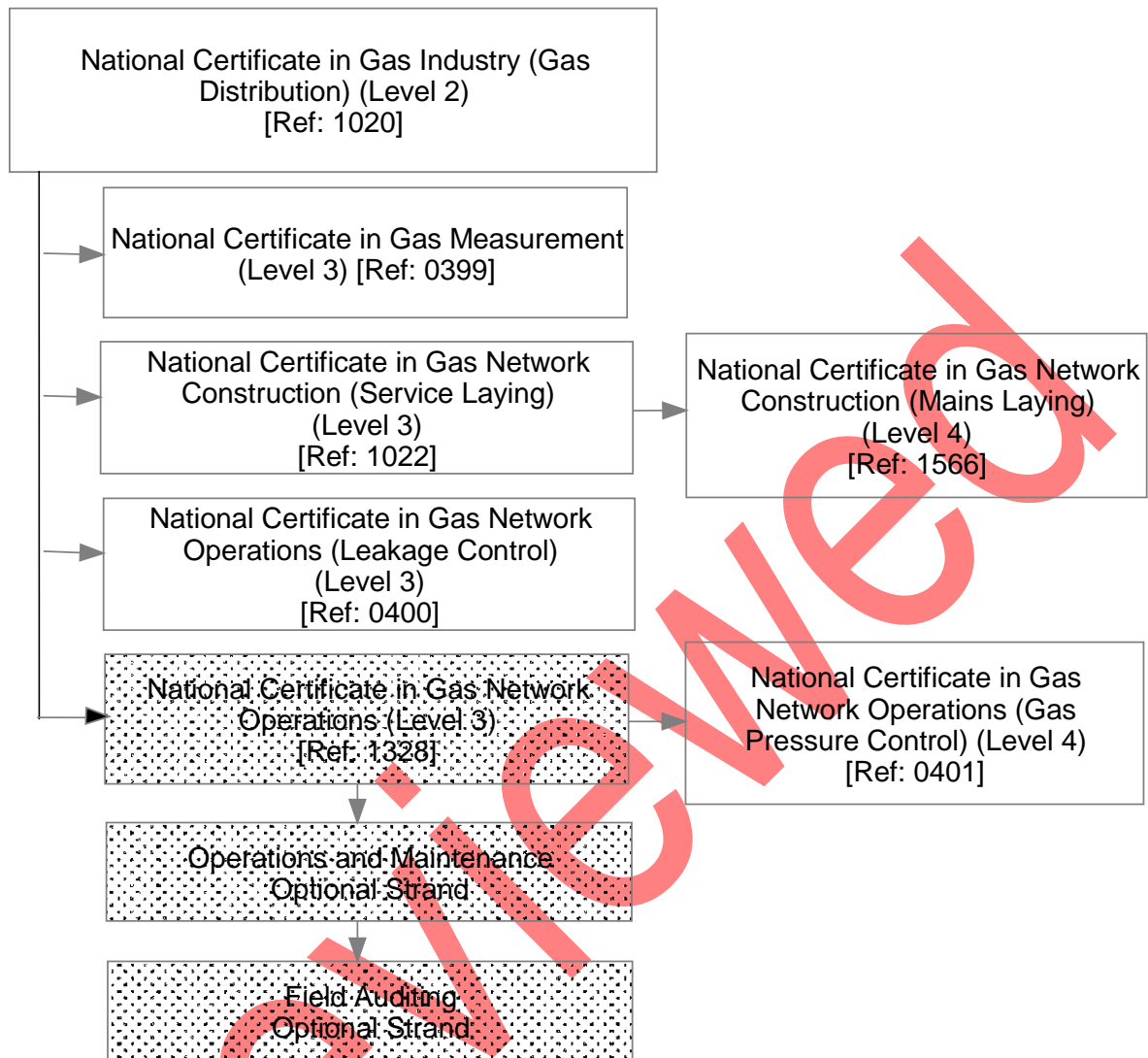
### Prerequisite Diagram



**Key**

- Prerequisite
- ➔ Recommended
- ☐ In prerequisite National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020]
- ▨ Elective in qualification
- Optional in qualification
- ◻ Not in qualification
- Qualification not on New Zealand Qualifications Framework

## Pathways Diagram – Gas Network Industry



**Key**



Qualification and optional strands separated to show sequence for award of qualification with optional strands