

## National Certificate in Gas Network Construction (Mains Laying) (Level 4)

<b>Level</b>	<b>4</b>
<b>Credits</b>	<b>75</b>

### Purpose

This National Certificate is designed for people working in the network construction 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 laying gas mains in a gas distribution network.

The compulsory section recognises competence in testing, decommissioning, disconnecting, purging, pigging, repairing, laying, connecting, and commissioning, gas mains and knowledge of related activities such as cathodic protection and confined space.

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 National Certificate in Gas Network Construction (Service Laying) (Level 3) [Ref: 1022], and the replaced National Certificate in Gas Network Construction (Level 3) with stands in Mainlaying Polyethylene, Mainlaying Polyethylene and Cast Iron, Mainlaying Steel, and Servicelaying [Ref: 0398], which are alternative prerequisites for this qualification; and shares some standards in common with the National Certificate in Gas Network Operations (Leakage Control) (Level 3) [Ref: 0400].

### Special Note

Prerequisites:

National Certificate in Gas Network Construction (Service Laying) (Level 3) [Ref: 1022], or National Certificate in Gas Network Construction (Level 3) with stands in Mainlaying Polyethylene, Mainlaying Polyethylene and Cast Iron, Mainlaying Steel, and Servicelaying [Ref: 0398], or demonstrate equivalent knowledge and skills.

### Credit Range

	<b>Compulsory</b>	<b>Optional</b>
Level 3 credits	26	0-2
Level 4 or above credits	49	0-43
Minimum totals	75	-

## Requirements for Award of Qualification

### Award of NQF 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 in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

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

### Detailed Requirements

#### Compulsory

The following standards are required

Engineering and Technology > Gas Industry > Gas Network Construction

ID	Title	Level	Credit
10968	Decommission and disconnect a main in a gas distribution network	4	8
10972	Perform hydrostatic tests on mains and services in a gas distribution network	4	7
10981	Fit mechanical couplings in a gas distribution network	3	3
10986	Use flow-stopping bags in a gas distribution network	4	10
10988	Insert a polyethylene pipe into a casing pipe in a gas distribution network	4	6
19546	Test, connect, and purge a main in a gas distribution network	3	8
23087	Pig a pipeline in a gas network	4	4
25608	Carry out a flow stopping operation on a live gas main	4	12
25609	Demonstrate knowledge of hydrostatic testing equipment and operations in a gas distribution network	3	3
25611	Demonstrate knowledge of stopple equipment and operations in a gas distribution network	3	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

## 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

## Manufacturing &gt; Plastics Processing Technology &gt; Plastics Fabrication

ID	Title	Level	Credit
25610	Demonstrate knowledge of equipment and operations for jointing polyethylene pipe for a distribution network	3	5

**Optional standards**

The following standards are optional

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

ID	Title	Level	Credit
10974	Use stopple equipment on steel gas pipes	4	10
10983	Hot tap, test, and drill a steel pipe in a gas distribution network	4	12

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

ID	Title	Level	Credit
12509	Install and test cathodic protection in a gas distribution network	4	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

Health &gt; Health Studies &gt; Core Health

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

Manufacturing &gt; Plastics Processing Technology &gt; Plastics Fabrication

ID	Title	Level	Credit
10987	Perform butt fusion jointing on polyethylene pipe for a distribution network	4	8

## Transition Arrangements

This qualification contains a standard that replaces an earlier standard. For the purposes of this qualification, people who have gained credit for the expiring standard are exempt from the requirement to gain credit for the replacement standard – see table below.

Credit for	Exempt from
10971	19546

## NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2010	N/A

## Standard Setting Body

NZ Extractive Industries Training Organisation  
PO Box 2623  
Christchurch 8140

Telephone 03 964 4710  
Facsimile 03 964 4714  
Email [info@exito.org.nz](mailto:info@exito.org.nz)  
Website <http://www.exito.org.nz>

## Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2015
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## Other standard setting bodies whose standards are included in the qualification

InfraTrain New Zealand  
 New Zealand Industry Training Organisation  
 NZQA

## Certification

This certificate will display the logos of NZQA, the NZ Extractive Industries Training Organisation and the accredited organisation.

## Classification

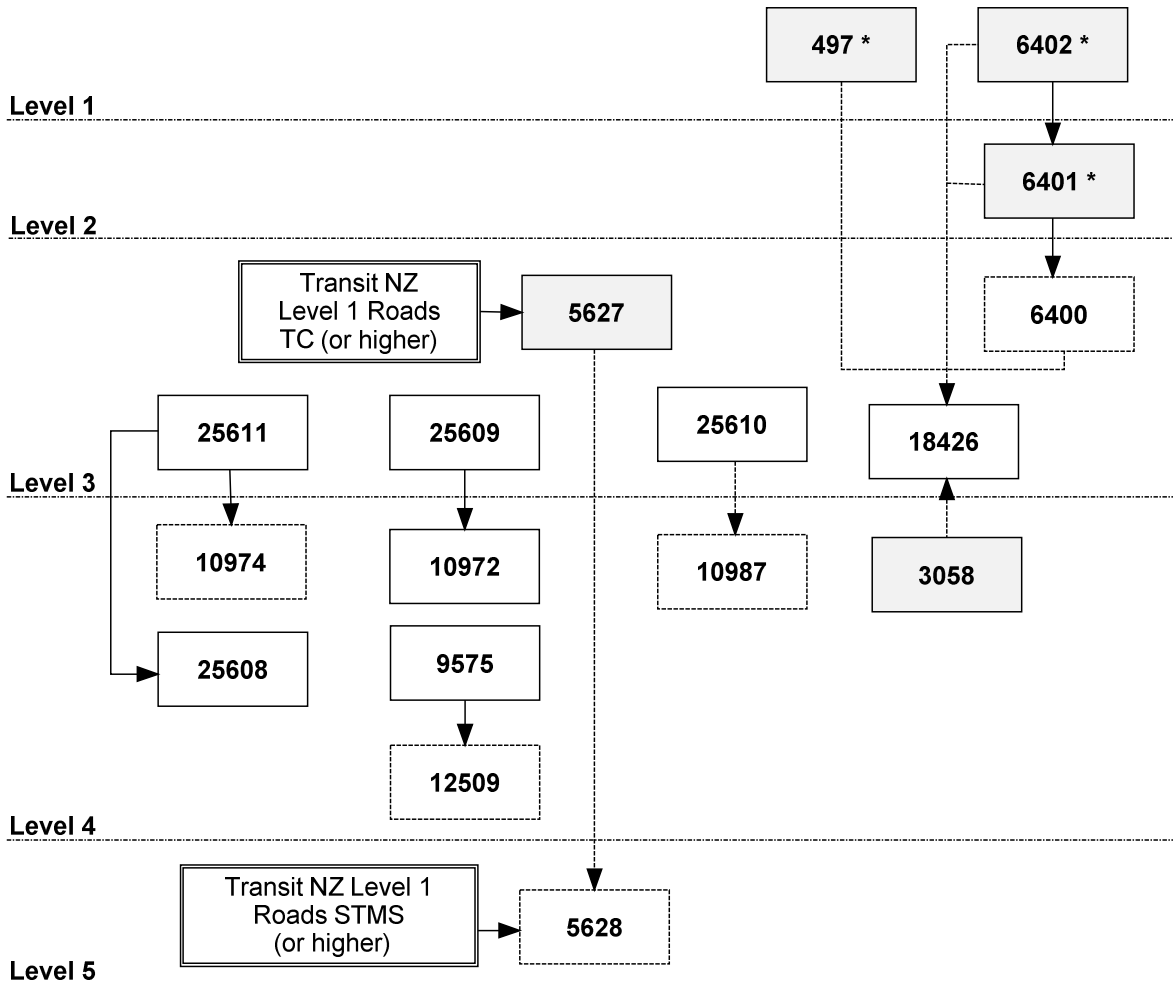
This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
1378	Engineering and Technology > Gas Industry > Gas Network Construction	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 accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

# Prerequisite Diagram

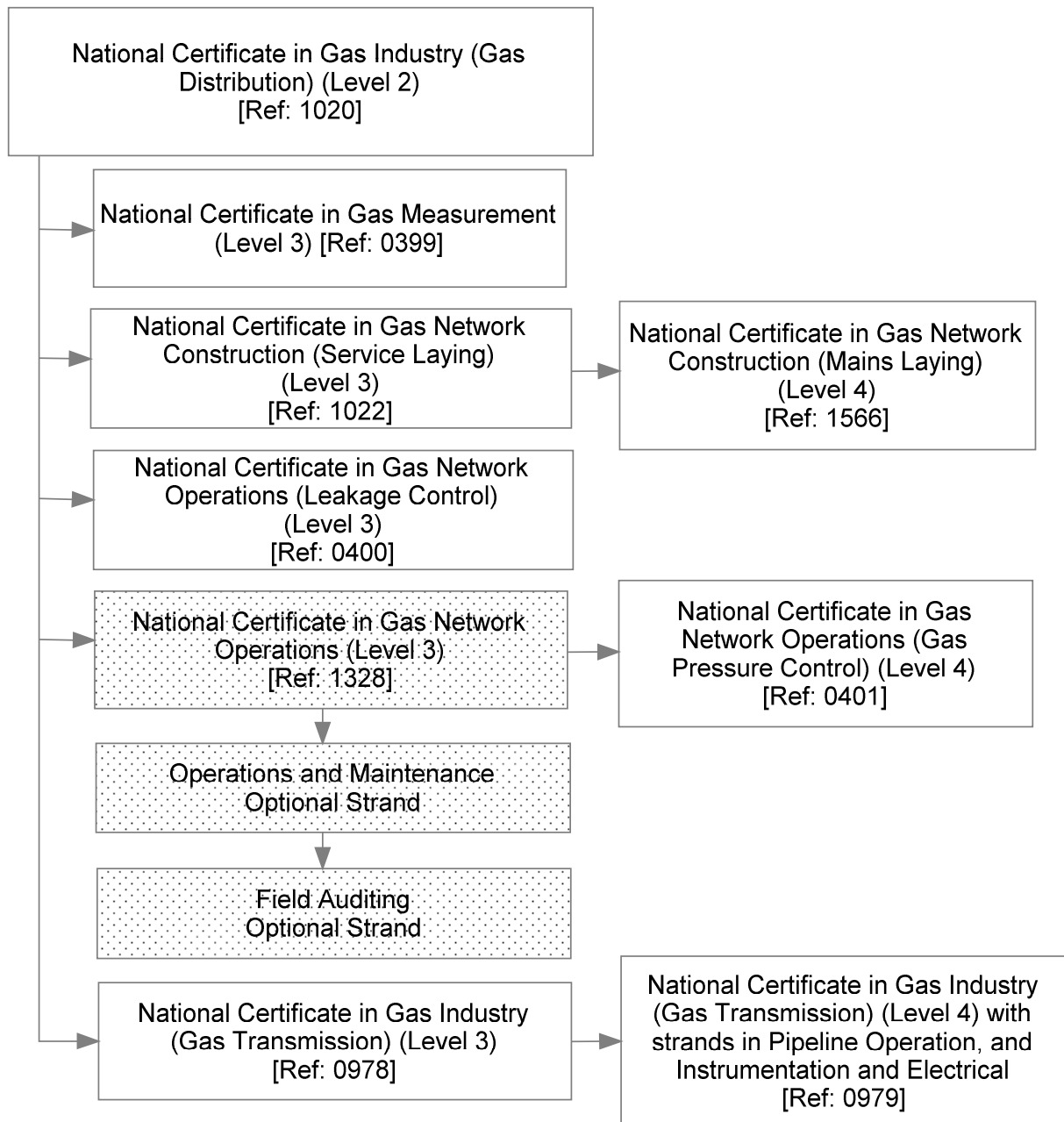


**Key**

- ▶ Prerequisite
- - -▶ Recommended
- Optional in qualification
- ▭ Qualification not on National Qualifications Framework
- ▭ Standard not in qualification

\* Standard in the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] which is the prerequisite for National Certificate in Gas Network Construction (Service Laying) (Level 3) [Ref: 1022]

## Pathways Diagram - Gas Industry



### Key



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