

National Certificate in Gas Network Construction (Service Laying) (Level 3)

Level 3

Credits 84

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 services in a gas distribution network.

The compulsory section recognises competence in using construction plant and equipment, excavating, backfilling, and compacting for gas service pipelines, decommissioning, disconnecting, purging, repairing, laying, recommissioning, and testing gas service pipelines. The elective sections acknowledge competence in using breathing apparatus and temporary traffic management.

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 Operations (Leakage Control) (Level 3) [Ref: 0400], and the National Certificate in Gas Network Operations (Level 3) with optional strands in Operations and Maintenance; and Field Auditing [Ref: 1328].

The National Certificate in Gas Network Construction (Service Laying) (Level 3) [Ref: 1022] is a prerequisite for and leads on to the National Certificate in Gas Network Construction (Mains Laying) (Level 4) [Ref: 1566].

Replacement Information

This qualification replaced the National Certificate in Gas Network Construction (Level 3) with strands in Mainlaying Polyethylene, Mainlaying Polyethylene and Cast Iron, Mainlaying Steel, and Servicelaying [Ref: 0398].

Special Note

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
Level 2 credits	13	-	0-2
Level 3 credits	60	3-6	0-4
Level 4 credits	6	-	-
Minimum totals	79	3	2

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
- 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 > Civil Plant Operation and Management > Civil Plant Operation

ID	Title	Level	Credit
6457	Use generator and compressor for civil construction	2	2
6467	Operate a plate compactor on civil construction materials	2	4
6470	Operate a handheld pavement breaker	2	4

Engineering and Technology > Civil Works and Services > Civil Construction Works

ID	Title	Level	Credit
23283	Open roads, excavate, backfill and compact, and prepare for surface reinstatement	3	10

Engineering and Technology > Gas Industry > Gas Network Construction

ID	Title	Level	Credit
10969	Decommission and disconnect services in a gas distribution network	3	8
10975	Squeeze off a polyethylene pipe in a gas distribution network	3	6
10984	Cut, thread, and join steel pipes in a gas distribution network	2	3

ID	Title	Level	Credit
10992	Use pipe and cable locators in a gas distribution network	3	3
19547	Connect, test, and purge a service in a gas distribution network	3	8
23086	Lay a gas pipe in a gas distribution network	3	6
25607	Demonstrate knowledge of flow stopping equipment and operations in a gas distribution network	3	6

Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit
11328	Gain approvals and implement notification procedures for works in a gas distribution network	3	3
12507	Use gas leakage detection equipment on reticulated gas networks	3	5

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 > Highway Construction and Maintenance > 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

Transition Arrangements

Version 7 was issued following review.

Changes to structure and content

- title descriptor was changed from *Pipelaying* to *Service Laying* to reflect the updated content of the qualification;
- purpose statement was amended to reflect restriction to gas services context;
- compulsory standards 12507, 23283, 25607 and 25610 were added;
- compulsory standards 9575, 10968, 10985, 10988 and 19546 were removed;
- all optional standards were removed; and
- total credits decreased from 85 to 84.

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

People working towards versions 5 or 6 of this qualification may choose to complete the requirements for those versions or transfer their results to this replacement qualification.

All new trainees will be enrolled in programmes leading to version 7 of the qualification.

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

Credit for	Exempt from
10973	19547
10977, 19548	23086

The above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to NZ Extractive Industries Training Organisation.

Previous versions of the qualification

Version 6 was issued to include an elective that allowed people who had gained credit for standard 5627 under the Gas Distribution and GMS Certificate of Competence Framework to use that standard to satisfy the traffic management component. Standards 20877 and 20878 were moved from the compulsory, and standard 5627 was added, to the new elective 2.

Version 6 of this qualification contained standards that replaced 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
10976, 10990	23086
10977	23086
19548	23086

Version 5 was issued to reinstate standard 10992, which was inadvertently omitted from the compulsory section of version 4, and total credits changed from 82 to 85. Version 4 was withdrawn and people working towards version 4 transferred to version 5. People working towards version 2 or 3 could either complete the requirements for that version or transfer existing credits to version 5.

Version 4 was issued following the planned review of the qualification and taking account of a review of gas industry standards, New Zealand gas industry requirements, and feedback from industry, assessors, and providers. The strands were removed and title updated; a new optional section was added; special notes were removed; reviewed standard classifications, titles, levels, and credits were updated; standards 9575, 10675, 10680, 10685, 10968, 10969, 10975, 10980, 10984, and 10988 were moved and standards 6457, 20877, and 20878 were added to the compulsory section; standards 5628 and 6400 were moved to the optional section and standards 1099, 3490, 10981, and 10985 were removed; credit totals were updated; a prerequisite diagram was added; and pathway diagram updated.

Version 3 was issued following a review of the Temporary Traffic Control standards; the title of standard 5628 was updated.

Version 2 was issued following a review of the Fire and Rescue Services standards. Standard 17497 was removed; reviewed standards were updated; credits totals decreased from 86-96 to 83 or 93 depending on strand; prior award of the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] 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 Extractive Industries Training Organisation.

Version 1 replaced the National Certificate in Gas Network Construction (Level 3) with strands in Mainlaying Polyethylene, Mainlaying Polyethylene and Cast Iron, Mainlaying Steel, and Servicelaying [Ref: 0398]. There were significant differences between the qualifications.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2003	December 2006
Revision	2	June 2004	December 2008
Revision	3	May 2005	December 2008
Review	4	October 2007	Withdrawn
Revision	5	December 2007	December 2012
Revision	6	September 2008	December 2012
Review	7	June 2010	N/A

Standard Setting Body

NZ Extractive Industries Training Organisation
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 Christchurch 8140

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 Email 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

Fire and Rescue Services Industry Training Organisation
 InfraTrain New Zealand

Certification

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

Classification

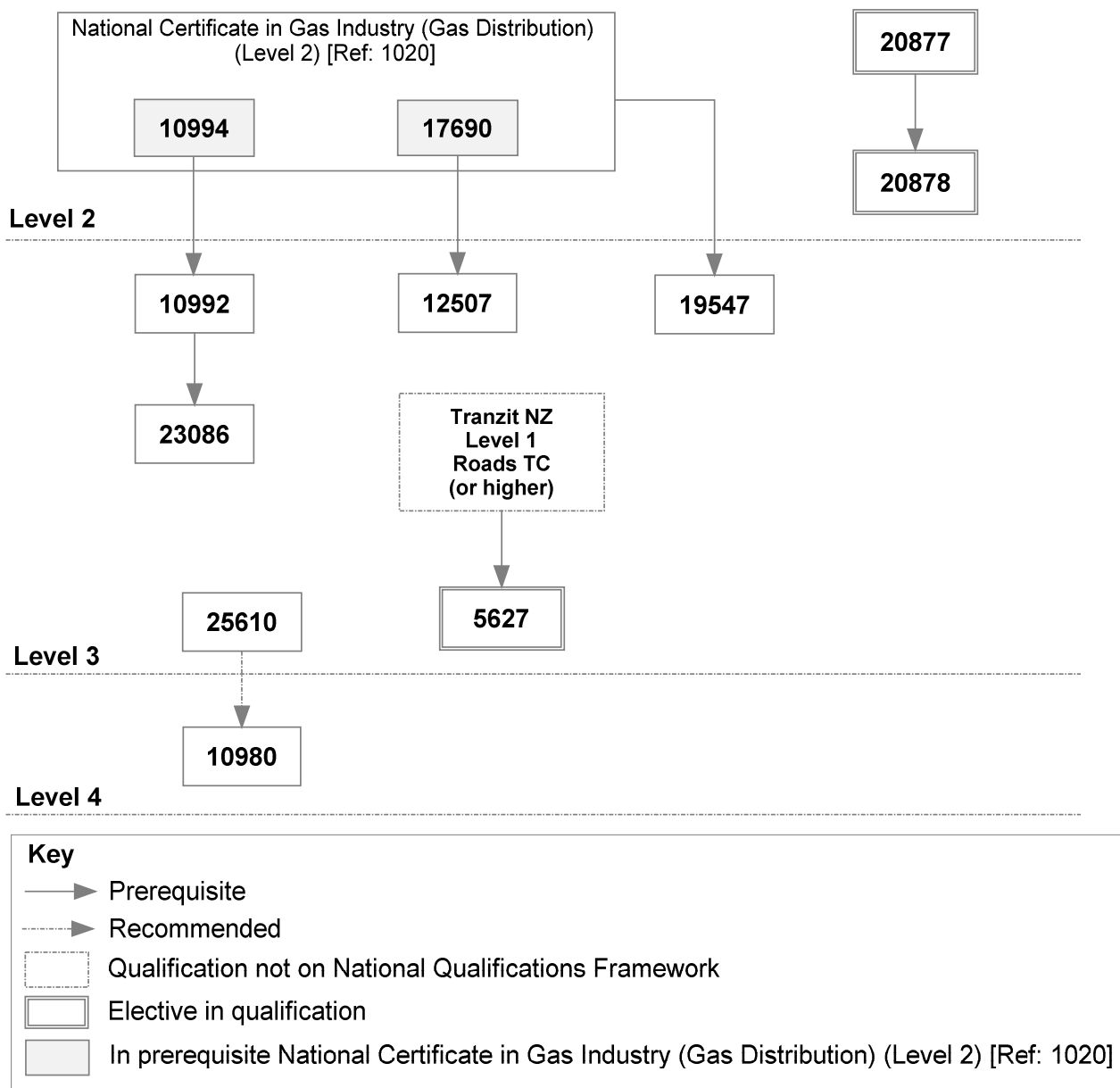
This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

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

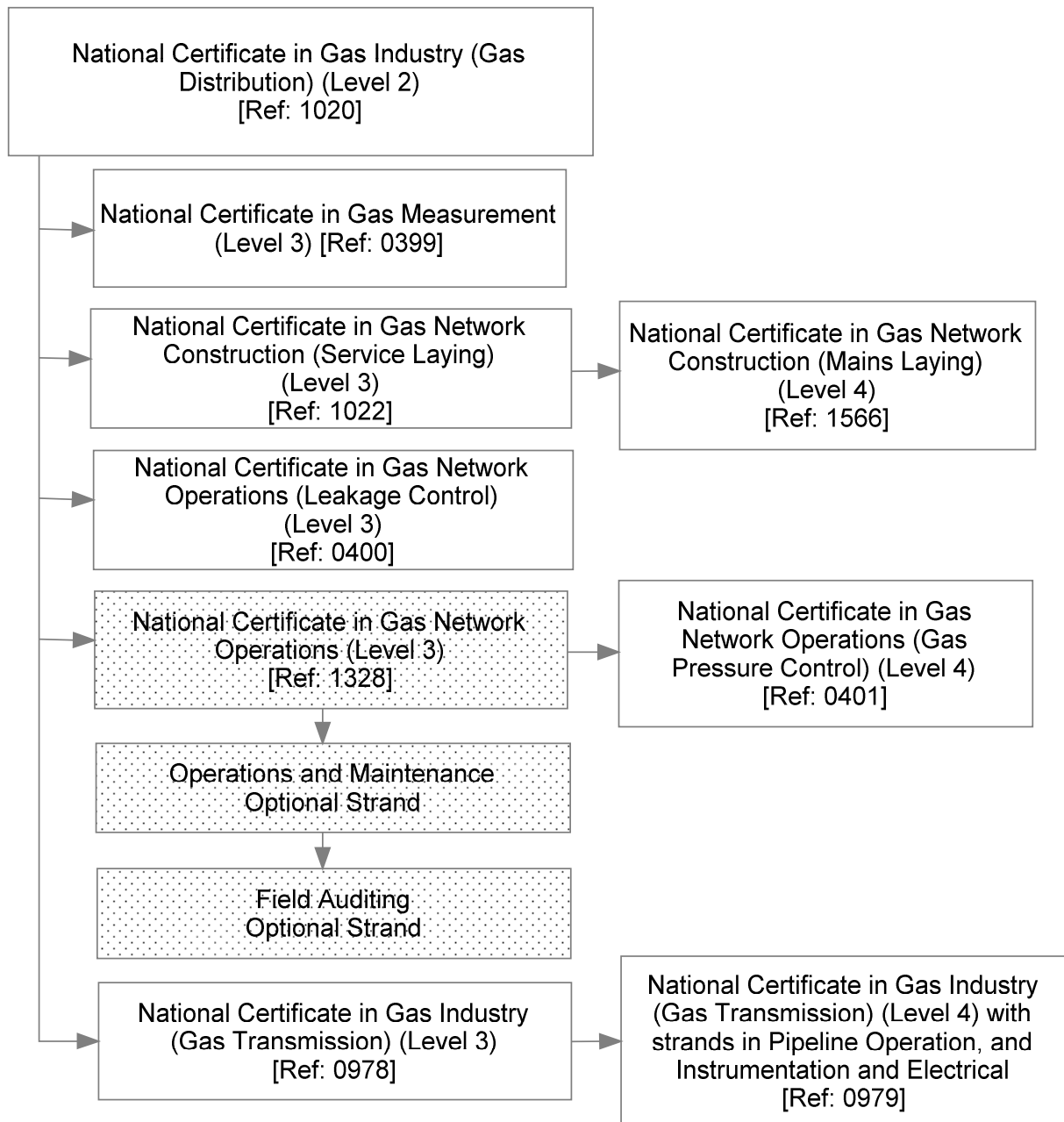
Quality Management Systems

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



Pathways Diagram - Gas Industry



Key



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