

National Certificate in Gas Industry (Gas Transmission) (Level 3)

Level 3

Credits 93

This qualification is **expiring**. The last date to meet the requirements is 31 December 2012.

Purpose

This national certificate is designed to recognise a range of competencies applicable to people working in the gas transmission sector of the gas industry.

The qualification recognises the core skills and knowledge required for people to safely carry out station operations and easement activities when working on pipeline stations, facilities, and pipeline easements. People awarded with this certificate will be able to work unsupervised, and will have the basic competence needed for station operations and easement activities.

The national certificate builds on the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020] and is itself recommended for prior award before entry to the National Certificate in Gas Industry (Gas Transmission) (Level 4) with strands in Pipeline Operation, and Instrumentation and Electrical [Ref: 0979].

Replacement Information

This qualification was replaced by the National Certificate in Gas Transmission Operations (Pipeline) (Level 3) [Ref: 1575], the National Certificate in Gas Transmission Operations (Mechanical) (Level 3) [Ref: 1576] and the National Certificate in Gas Transmission Operations (Instrumentation and Electrical) (Level 3) [Ref: 1578].

Special Notes

It is recommended that people seeking award of this qualification have achieved prior award of the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020], or can demonstrate equivalent knowledge and skills.

Credit Range

	Compulsory	Elective
Level 1 credits	3	0-1
Level 2 credits	12	0-26
Level 3 or above credits	28	23-100
Minimum totals	43	50

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 – A minimum of 23 credits as specified

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit
20590	Test gas for odour level and odorant concentration in a gas network	3	3

Engineering and Technology > Petrochemical Industry > Petrochemical Operations Communication and Responses

ID	Title	Level	Credit
9618	Use and interpret petrochemical industry documentation	3	3

Engineering and Technology > Petrochemical Industry > Petrochemical Process and Product Management

ID	Title	Level	Credit
9609	Monitor atmospheric emissions in a petrochemical environment	3	3

Engineering and Technology > Petrochemical Industry > Petrochemical Product Transmission and Transfer

ID	Title	Level	Credit
18420	Assist in carrying out emergency pipeline repairs in a petrochemical environment	3	3
19541	Demonstrate knowledge of gas pipeline system components in a petrochemical environment	2	3

ID	Title	Level	Credit
19542	Demonstrate knowledge of gas transmission pipeline operation in a petrochemical environment	2	4

Health > Health Studies > Core Health

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

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17590	Issue work site specific work permits	3	6
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4
18426	Demonstrate knowledge of hazards associated with confined space	3	4

Humanities > Communication Skills > Writing

ID	Title	Level	Credit
3490	Write an incident report	1	3

Manufacturing > Energy and Chemical Plant > Monitoring of Energy and Chemical Plant

ID	Title	Level	Credit
3054	Read and interpret instruments used in an energy and chemical environment	2	5

Elective

A minimum of 50 credits

- Of which a minimum of 23 credits at Level 3 or above

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit
823	Demonstrate knowledge of agrichemicals	2	5

Agriculture, Forestry and Fisheries > Pest Management > Pest Control

ID	Title	Level	Credit
5059	Demonstrate understanding of safety with agrichemicals	1	1
5060	Apply an agrichemical using a non-motorised applicator	2	3

Computing and Information Technology > Computing > Generic Computing

ID	Title	Level	Credit
2780	Operate and maintain a personal computer system	2	9

Engineering and Technology > Gas Industry > Gas Measurement

ID	Title	Level	Credit
12450	Demonstrate knowledge of gas meters and correctors	2	3

Engineering and Technology > Gas Industry > Gas Network Operations

ID	Title	Level	Credit
12522	Demonstrate a basic knowledge of gas regulators	2	3
19553	Demonstrate knowledge of standard gas pressure control equipment	3	12
19554	Demonstrate knowledge of advanced gas pressure control equipment	4	12
19555	Assemble, install, test, and commission standard gas pressure reducing and metering station	3	15
19557	Perform routine maintenance on standard gas pressure reducing and metering stations	3	15

Engineering and Technology > Petrochemical Industry > Petrochemical Cathodic Protection

ID	Title	Level	Credit
9575	Understand the basics of cathodic protection in a petrochemical environment	4	2
9576	Carry out cathodic protection system monitoring in a petrochemical environment	4	3

Engineering and Technology > Petrochemical Industry > Petrochemical Product Transmission and Transfer

ID	Title	Level	Credit
9543	Install and maintain pipeline safety signs and aerial markers in a petrochemical environment	3	2
9548	Locate pipelines in a petrochemical environment	3	3
9553	Inspect pipeline stations in a petrochemical environment	3	3
9554	Inspect pipeline easements in a petrochemical environment	3	3
18415	Demonstrate knowledge of gas filtration equipment in a petrochemical environment	2	3
18421	Demonstrate knowledge of compression equipment in a petrochemical environment	4	6

Humanities > Communication Skills > Writing

ID	Title	Level	Credit
3491	Write a report	3	4

Manufacturing > Energy and Chemical Plant > Monitoring of Energy and Chemical Plant

ID	Title	Level	Credit
3058	Perform gas tests in an energy and chemical environment	4	5

Manufacturing > Energy and Chemical Plant > Safety and Legislation for Energy and Chemical Plant

ID	Title	Level	Credit
3062	Identify, handle and store chemicals in an energy and chemical environment	3	5

Service Sector > Cranes > Crane Operation

ID	Title	Level	Credit
16617	Use a truck loader crane to lift and place loads	3	6

Service Sector > Driving > Specialist Driving Knowledge and Skills

ID	Title	Level	Credit
17976	Demonstrate knowledge of operating a light four wheel drive (4WD) vehicle in an off-road environment	3	4

Transition Arrangements

Version 3

Version 3 was issued to indicate that this qualification is expiring.

This qualification was replaced by the National Certificate in Gas Transmission Operations (Pipeline) (Level 3) [Ref: 1575], the National Certificate in Gas Transmission Operations (Mechanical) (Level 3) [Ref: 1576] and the National Certificate in Gas Transmission Operations (Instrumentation and Electrical) (Level 3) [Ref: 1578].

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

Previous versions of the qualification

Version 2 was issued following review. The classification of the qualification has changed from the *Petrochemical Industry* subfield to the *Gas Industry* subfield. Changes have also been made to the qualification's structure and requirements to reflect the current competencies required by the gas industry, and to update the Standard Setting Body information following the amalgamation of the Gas and Petrochemical Industry Training Organisation with the NZ Extractive Industries Training Organisation.

Changes to structure and content include: title amended to reflect the new classification Purpose statement updated; qualification credits reduced from 111 to 93; recommended prior qualification changed to the National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020]; standard 3058 transferred from the compulsory section to the elective section; standards 6401, 6402, 11329, and 17690 removed from the compulsory section because these are in the recommended National Certificate in Gas Industry (Gas Distribution) (Level 2) [Ref: 1020]; standards 7123 and 12442 removed from the compulsory section; standards 3490, 9609, 9618, 17602, and 20590 added to the compulsory section; Elective credit requirements reduced from 65 to 50 credits as Elective A and its requirement for a minimum of 15 credits from selected domains has been removed; standard 18420 transferred from the elective section to the compulsory section; standards 5627, 5629, 9573, and 9574 removed from the elective section; standards 823, 2780, 3062, 3491, 5059, 5060, 16617 and 19555 added to the elective section; and qualification pathway diagram updated.

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer existing credits to version 2.

Any candidate who feels that they have been disadvantaged by this review should contact The NZ Extractive Industries Training Organisation at the address below.

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
9573, 9574	20590
9598	17590
9619	17590
12511, 12514	19555
12513, 12516	19557
12517	19553, 19554

Version 1 was registered in December 2002 and was one of five qualifications [Refs: 0977-0981] for the petrochemical industry that replaced:

- National Certificate in Petrochemical Industry (Level 2) with optional strands in Drilling, and Production [Ref: 0494]
- National Certificate in Petrochemical Industry (Level 3) with optional strands in Drilling, Laboratory Operations, Production, and Transmission [Ref: 0495]
- National Certificate in Petrochemical Industry (Level 4) with optional strands in Drilling, Laboratory Operations, Production, Supervision and Quality, and Transmission [Ref: 0496].

There were significant differences between the replacement qualifications and the originals and no direct one-to-one relationship was established. The transition for the replaced qualifications expired in December 2003.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	December 2002	December 2005
Review	2	June 2004	December 2012
Review	3	July 2010	December 2012

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
Website <http://www.exito.org.nz>

Other standard setting bodies whose standards are included in the qualification

ElectroTechnology Industry Training Organisation
New Zealand Horticulture Industry Training Organisation
New Zealand Industry Training Organisation
NZQA
Opportunity - The Training Organisation
Tranzqual ITO

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
345	Engineering and Technology > Gas Industry	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.

Appendix 1

Gas Industry Qualification Pathway

