

LEVEL

3

154 CREDITS

NATIONAL CERTIFICATE IN Infrastructure Pipelaying



**InfraTrain
New Zealand**

Developed in
partnership with the
civil construction
industry.





A QUALIFICATION FOR INFRASTRUCTURE PIPELAYING

The *National Certificate in Infrastructure Pipelaying* has been developed specifically to meet the industry's need for a qualification that covers the unique technical requirements and health and safety issues of installing new infrastructure pipes.

A number of local authorities have required contractors to hold the National Certificate in Drainlaying for infrastructure pipelaying work on local authority and Crown land, as an appropriate qualification was not available. However, the Plumbers, Gasfitters and Drainlayers Act 2006 specifically excludes pipes under the control of, or maintained by the Crown or a local authority. There is no legal requirement for people installing such infrastructure pipes to be registered as a drainlayer.

The *National Certificate in Infrastructure Pipelaying* has been developed to cover such infrastructure pipelaying work on local authority or Crown land. The qualification recognises the specific competencies required by contractors and drainlayers for best-practice installation of infrastructure pipes. It also provides the opportunity for both employers and contractors to better meet Health and Safety requirements and for councils to meet their obligations under the Auditor General's Best Practice Guidelines.



THE NATIONAL CERTIFICATE IN INFRASTRUCTURE PIPELAYING



The *National Certificate in Infrastructure Pipelaying* covers the installation of new infrastructure pipes, fittings and associated structures for sanitary sewage, stormwater, potable water, gas and cable ducting.

The qualification comprises core compulsory and elective unit standards.

The core compulsory unit standards cover:

- Knowledge of pipes, fittings, structures
- Locating and identifying services
- Determining line, level and grade
- Road opening, excavation, backfilling, compaction and reinstatement
- Slinging, lifting and placing with excavator or loader
- Placing, fitting and jointing pipes, installing structures
- Making and placing concrete
- As-built records
- Safety requirements for water-borne pathogens and diseases
- Work in confined spaces
- Workplace communications
- First Aid

The core elective sections provide a choice of unit standards to suit the diverse work roles in infrastructure pipelaying and cover:

- Health and Safety
- Jointing pipes
- Water control
- Drainlaying
- Reading plans
- Plant operation
- Traffic control

There is also an optional strand in gas distribution pipelaying for pipelayers who wish to meet the New Zealand Gas Industry's Gas Distribution and Gas Measurement System Certificate of Competence requirement for the Work Type: Construction of Mains and Services.

The qualification may follow on from the National Certificate in Civil Infrastructure (General Introductory Skills). It shares a limited range of unit standards in common with the National Certificates in Civil Construction Works, Civil Plant Operation, the National Certificate in Drainlaying and the National Certificate in Water Reticulation (Service Person).

COMPLEMENTARY QUALIFICATIONS

The *National Certificate in Infrastructure Pipelaying* has been developed with the support of the Plumbing, Gasfitting and Drainlaying ITO (which offers the National Certificate in Drainlaying) and the Agriculture ITO (which offers the National Certificate in Water Reticulation). The table on the back of this brochure shows the relevant coverage of the three qualifications.

RECOGNISING CURRENT COMPETENCY

If people have existing on-job knowledge and skills from work in pipelaying, they may be able to have this recognised towards the *National Certificate in Infrastructure Pipelaying*.

Please contact InfraTrain New Zealand for further information on the recognition process.



INDUSTRY RECOGNISED

"The Plumbers, Gasfitters, and Drainlayers Board congratulates InfraTrain New Zealand on the development of the Infrastructure Pipelaying qualification... The board recommends this new qualification to any registered drainlayer who wishes to extend their field of work to include that of Infrastructure Pipelaying."

P. W. Routhan

REGISTRAR AND CEO OF THE PLUMBERS, GASFITTERS, AND DRAINLAYERS BOARD

"Drainlaying and Water reticulation qualifications are required by our members for work in the construction industry. This qualification satisfies the specific needs of our client's for infrastructure pipelaying work, which are not covered by other qualifications."

Jeremy Sole

CEO NEW ZEALAND CONTRACTORS FEDERATION

"The qualification is important for the industry as it takes current best practice and converts it into a qualification. This will ensure that those in the contracting sector have the opportunity to receive training in this area, which is currently not covered by other qualifications."

Chris Olsen

CHIEF EXECUTIVE ROADING NEW ZEALAND

"We acknowledge that there has been the need for an industry specific qualification for contractors working on civil infrastructure. We consider that the development of the National Certificate in Infrastructure Pipelaying is a positive move forward. ... The Nelson City Council intends supporting this initiative by incorporating this training requirement into its Land Development Manual."

Michael Schruer

SENIOR EXECUTIVE INFRASTRUCTURE, NELSON CITY COUNCIL

BENEFITS FOR CONTRACTORS

- Provides contractors with the training and qualification to tender for infrastructure pipelaying.
- Recognises the skills of contractors with an appropriate qualification, designed by the industry.
- Covers health and safety requirements for this type of work. It also provides for the part completion of the Operate Safe bronze card (subject to the electives taken).
- Provides a career path for those working in the infrastructure industry. Trainees can start on the general introductory skills qualification and complete a number of units applicable to the pipelaying qualification.
- Infrastructure Pipelaying is available as a Modern Apprenticeship programme.
- Endorsed by the major industry associations and regarded as best-practice for those working in this sector.

QUALIFICATION GUIDE

This qualification guide outlines the definition and practical use for each qualification to assist with identifying the appropriate one for the job.

QUALIFICATION	NATIONAL CERTIFICATE IN INFRASTRUCTURE PIPELAYING	NATIONAL CERTIFICATE IN WATER RETICULATION (SERVICE PERSON)	NATIONAL CERTIFICATE IN DRAINLAYING
DEFINITION	This qualification is for people engaged in installing new pipes, fittings and associated structures for infrastructure, including gas, potable water, sanitary sewage, storm water and cable ducting, normally beyond the boundary of private property.	This qualification recognises the skills and knowledge required for people who work as service persons in water reticulation. People will specialise in one of two strands – water reticulation or wastewater reticulation.	This certificate is the national qualification in drainlaying practice. Holders of this qualification are able to use drainlaying tools and equipment, excavate, trench and install and maintain drainlaying structures and fittings.
PRACTICAL USE	Required for the installation of all pipes, normally beyond the boundary of private property, and maintenance of the pipes for the warranty period only. <i>Pipe installation requires extensive civil construction knowledge and skills with some associated water reticulation knowledge.</i>	Required for the maintenance of water reticulation pipes and their services. <i>Maintenance requires extensive water reticulation knowledge and skills with some civil construction knowledge and may include the minor replacement of water reticulation pipes up to the property boundary.</i>	Required for drainlaying from the domestic or commercial dwelling to the street boundary.
LEVEL	3	3	4
CREDITS	154 or 170 with optional strand	87–89 depending on strand	135
STRANDS	Optional Strand <ul style="list-style-type: none"> Gas Distribution Pipelaying 	<ul style="list-style-type: none"> Water Wastewater 	Not Applicable
QUALIFICATION PATHWAY	<ul style="list-style-type: none"> National Certificate in Water Reticulation National Certificate in Civil Construction Supervision National Certificate in Business (First Line Management) With optional Gas Distribution Pipelaying Strand: <ul style="list-style-type: none"> National Certificate in Gas Network Construction (Pipelaying) 	<ul style="list-style-type: none"> National Certificate in Water Reticulation (Supervisor) National Certificate in Infrastructure Pipelaying 	<ul style="list-style-type: none"> Registration as a Drainlayer National Certificate in Infrastructure Pipelaying

InfraTrain is also able to enrol trainees in the National Certificate In Water Reticulation (Service Person).

ENROLMENT INFORMATION

ENTRY REQUIREMENTS

Entry is open with no prerequisites.

HOW IS THE QUALIFICATION COMPLETED?

The Infrastructure Pipelaying qualification is completed through the recognition of relevant work skills and knowledge, as these are gained on the job. The trainee collects evidence of these skills and knowledge in a workbook, for verification and assessment against unit standards by an approved assessor.

The workbooks are provided by InfraTrain and explain what needs to be achieved to complete the qualification.

The following people play a key role in achieving a qualification on the job:

MENTOR

It is recommended that a mentor is assigned to the trainee. The mentor's role is to provide support and guidance. They may be a colleague, advisor or manager.

VERIFIER

A verifier is a person with industry experience who is appointed by the employer. The verifier's role is to observe and confirm work has been completed and the candidate is ready to be assessed.

ASSESSOR

The assessor is registered by InfraTrain and is assigned to the trainee after enrolment. The assessor's role is to assess work, which has been completed and verified, against the unit standards.

HOW LONG WILL IT TAKE?

Expected completion time for the *National Certificate in Infrastructure Pipelaying* is 24 months.

COST

The following costs apply:

Enrolment Fee – \$60 plus GST.

This is payable the first time a trainee is enrolled with InfraTrain. It is a one-off fee and covers enrolment in all future training with InfraTrain New Zealand Limited.

Subscription Fee – Monthly \$25 plus GST or Annual \$300 plus GST.

If paid monthly, the Subscription Fee is payable for a minimum of 24 months. These fees do not include the cost of assessment which is determined with the assessor.

HOW TO ENROL

To enrol in the qualification, call 0800 486 626 to arrange for an InfraTrain regional advisor to complete a Training Plan and Training Agreement. The Training Plan can be viewed on www.infratrain.co.nz, under the Qualifications section.



TALK TO US

If you would like more information on the *National Certificate in Infrastructure Pipelaying*, please contact us.

0800 486 626
or email askus@infratrains.co.nz

InfraTrain New Zealand
Level 12, 40 Mercer Street, PO Box 2759, Wellington 6140

www.infratrains.co.nz