

CONNEXIS
INFRASTRUCTURE TRAINING

NEW ZEALAND APPRENTICESHIP

LEVEL 4

Pipeline Construction & Maintenance

NZA

NZQA #3858-2

164 CREDITS

24 MONTHS



 NEW ZEALAND
APPRENTICESHIPS

CIVIL

ENERGY

TELCO

WATER

Enrol Now

CALL US: 0800 486 626

askus@connexis.org.nz

connexis.org.nz



NZA Pipeline Construction & Maintenance



Recognition for constructing large scale pipelines essential for the supply of freshwater and wastewater.

With strands in Drinking-Water, Stormwater and Wastewater, and Trenchless Technologies.

WHAT YOU'LL LEARN

This programme covers:

- Following and making plans to construct and maintain pipelines.
- Coordinating materials and operating tools and equipment needed to construct pipelines.
- Meeting health and safety requirements while ensuring the safety of learner and crew.
- Communicating well with the team while on-site

HOW THE COURSE IS DELIVERED

Workbooks: On-job assessment through workbooks which are printed and provided to you.

Advanced Portfolio Assessment (APA): APA recognises your existing skills and knowledge against a nationally recognised trade qualification - connexis.org.nz/apa-information

ENTRY REQUIREMENTS

- Must be employed in the infrastructure industry with exposure to gain the relevant skills covered.
- Recommended that you hold the New Zealand Certificate in Infrastructure Works Level 3 or demonstrate equivalent skills and knowledge.

TRAINING PATHWAYS

Graduates can work towards Civil Trade Certification, or progress to the following NZ Certificates (NJC):

- NJC in Infrastructure Works (Single Site Supervision) (Level 4)
- NJC in Infrastructure Works Projects (Level 5)
- NJC in Infrastructure Works Contract Management (Level 5)

STRANDS

At least one strand is required:

The **Drinking-Water**, and **Stormwater and Wastewater** strands cover maintaining reticulation assets (depending on chosen strand), including planned and reactive works.

The **Trenchless Technologies** strand covers installing or rehabilitating infrastructure assets using appropriate trenchless installation methodology and technology.

Contact us now to enrol

CALL US: 0800 486 626

askus@connexis.org.nz

connexis.org.nz



Programme Structure

The structure of this programme features eight compulsory modules, with three specialised strand options each including elective options.

Module 1

Demonstrate knowledge of and implement environmental controls for an infrastructure worksite

Demonstrate knowledge of the impact of erosion and sedimentation on an infrastructure worksite

Module 2

Demonstrate knowledge of notifiable works and work permits typical of infrastructure worksites and carry out notifiable work and permit requirements

Demonstrate knowledge of asbestos and safety measures for asbestos-related work

Module 3

Demonstrate knowledge of and carry out infrastructure works quality assurance requirements

Describe health and safety procedures and explain risk assessment for an infrastructure worksite and carry out health and safety procedures

Module 4

Use plans to locate features on an infrastructure worksite and interpret civil infrastructure plans

Module 5

Demonstrate knowledge of and select pipes and fittings for pipeline construction and maintenance

Demonstrate knowledge of and select methods for pipeline construction and maintenance

Module 6

Demonstrate knowledge of protection and support systems for excavation on an infrastructure works site

Carry out pipeline construction or maintenance preparation and service location

Module 7

Assess worksite conditions, deploy, and monitor resources for daily activities on an infrastructure worksite

Carry out excavation and post-excavation reinstatement work for pipeline construction or maintenance

Module 8

Prepare and maintain records for civil construction works

Identify and liaise with people affected by activities at an infrastructure works site

Interpret and communicate daily operational requirements on a civil infrastructure worksite



Drinking-water Strand

Demonstrate knowledge of pipe jointing systems for water reticulation

Demonstrate knowledge of and maintain water quality in drinking-water supply networks

Demonstrate knowledge of complex water reticulation assets, their components and fittings, and procedures used for them

Choose a minimum of 40 credits, maximum of 53 credits, from the following Unit Standards

Install infrastructure pipelaying structures, install pipes for infrastructure pipelaying, and confirm alignment and reinstate pipes and structures to correct line and level

Carry out maintenance operations on complex water reticulation assets

Demonstrate knowledge of public health considerations, hydraulics, backflow and corrosion in drinking-water networks

Demonstrate knowledge of and carry out butt fusion or electrofusion jointing on polyethylene pipes for water networks

Demonstrate knowledge of bypasses for pipeline construction and maintenance, and install, commission, and decommission bypasses for pipeline construction or maintenance

Explain single point groundwater control, pump systems and disposal methods for an infrastructure works excavation

Stormwater and Wastewater Strand

Demonstrate knowledge of pipe jointing systems for water reticulation

Demonstrate knowledge of public health considerations, hydraulics, and corrosion in wastewater and stormwater networks

Demonstrate knowledge of complex water reticulation assets, their components and fittings, and procedures used for them

Demonstrate knowledge of risks and risk management in wastewater and stormwater networks

Choose a minimum of 36 credits, maximum of 46 credits, from the following Unit Standards

Carry out maintenance operations on complex water reticulation assets, and clean and maintain a pump station

Install pipes for infrastructure pipelaying, confirm alignment and reinstate pipes and structures to correct line and level

Demonstrate knowledge of and carry out butt fusion or electrofusion jointing on polyethylene pipes for water networks

Perform work on live wastewater and stormwater networks, and operate a water-jet unit on infrastructure worksites

Construct a pressure rising main

Demonstrate knowledge of bypasses for pipeline construction and maintenance, and install, commission, and decommission bypasses for pipeline construction or maintenance

Explain single point groundwater control, pump systems and disposal methods for an infrastructure works excavation

Trenchless Technologies Strand

Demonstrate knowledge of damage avoidance, consequences of damage, damage response for trenchless installations, and effects of soil types and ground conditions on trenchless operations

Manage pipe handling, preparation, assembly for trenchless installation, and set up site and equipment for trenchless pipe installation or rehabilitation and disestablish the site afterwards

Use trenchless methodology to install or rehabilitate pipes

Choose a minimum of 18 credits, maximum of 21 credits, from the following Unit Standards

Plan trenchless pipe installation or rehabilitation operations, and explain single point groundwater control, pump systems and disposal methods for an infrastructure works excavation

Demonstrate knowledge of drinking-water networks, and materials, fittings, and techniques used for them

Demonstrate knowledge of wastewater and stormwater networks, their materials and fittings, and techniques used for them

