

# NEW ZEALAND APPRENTICESHIP PACKAGES



## NEW ZEALAND APPRENTICESHIPS IN CIVIL INFRASTRUCTURE TRADES

### WHO ARE THESE QUALIFICATIONS FOR?

These qualifications are perfect for those who are new to the industry. You could be a school leaver, or someone who is changing industries or re-joining the workforce after some time away.

In the 2-3 year programmes, you will learn the theory and practical skills you need, while you earn money and gain a level 4 nationally recognised qualification in the area of your choice.

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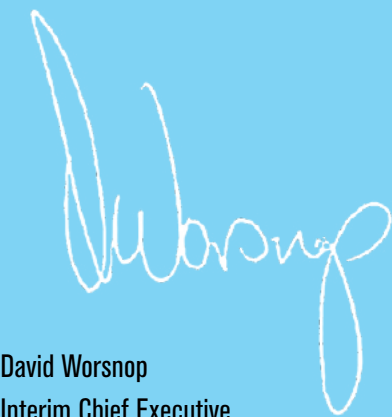
 NEW ZEALAND  
APPRENTICESHIPS

# A CAREER WITH OPPORTUNITY

By making the decision to gain an industry qualification, you have already taken an important step towards your own professional development. Demand for skilled workers is at an all-time high, with a forecast of an additional 49,000 people required by 2025 to deliver on the planned \$110 billion government investment in infrastructure.

Our New Zealand Apprenticeships for the Civil Industry come at a perfect time as government has signalled the importance of investment in industry training with the November 2016 announcement of its target of 50,000 people in apprenticeships by 2020. It is a great time to be enrolling in industry training and you are truly setting yourself up with a career for life, earning while you learn and achieving a nationally recognised qualification.

Flick through the pages of this brochure to find out what your apprenticeship options are within this thriving industry, and decide which specialist trade you are interested in joining. We are here to help, so talk to your employer and give us a call to get started today.



David Worsnop  
Interim Chief Executive  
CONNEXIS

## What New Zealand Apprenticeships are available in the Civil Infrastructure Industry?

NZ CERTIFICATE IN  
CIVIL INFRASTRUCTURE TRADES

**CIVIL WORKS**

with strands in Earthworks, Road Construction, Concrete Works (non-structural), and Road Maintenance

NZ CERTIFICATE IN  
CIVIL INFRASTRUCTURE TRADES

**BITUMINOUS SURFACING CONSTRUCTION**

with strands in Bituminous Mixes, Chipseal, and Slurry

NZ CERTIFICATE IN  
CIVIL INFRASTRUCTURE TRADES

**BITUMINOUS PRODUCT MANUFACTURING**

with strands in Binder Manufacturing Operation, Bituminous Mixes Operation, and Bitumen Spraying Operation

NZ CERTIFICATE IN  
CIVIL INFRASTRUCTURE TRADES

**PIPE INSTALLATIONS**

with strands in Trenched, and Trenchless

NZ CERTIFICATE IN  
CIVIL INFRASTRUCTURE TRADES

**UTILITIES MAINTENANCE**

with strands in Water, and Stormwater and Wastewater

### WHAT'S IN IT FOR ME?

A New Zealand Apprenticeship in Civil Infrastructure Trades can get your career off to a great start:

- Gain real skills and experience
- Earn while you learn
- Gain an industry recognised qualification
- Develop an interesting, challenging career where no two days are the same

### IS AN APPRENTICESHIP RIGHT FOR ME?

- There's some hard work involved in being an apprentice. You will be expected to:
- Arrive on time, and be prepared for possible early mornings or late nights!
  - Be confident and comfortable using tools and machinery
  - Travel around the country for different contract locations
  - Be fit and healthy
  - Hold a current New Zealand Driver's Licence
  - Work well in a team, be reliable, get your part of the job done and be a strong communicator
  - Be comfortable working in confined spaces or at heights
  - Be responsible for the health and safety of yourself and others



### CIVIL TRADES CERTIFICATION

Once you have completed your New Zealand Apprenticeship, and gained 8,000 hours of practical experience, you will be eligible to apply for Civil Trades Certification. Civil Trades Certification recognises the specialist skills of people who build New Zealand's infrastructure. During your apprenticeship, you will gain 6,000 hours of industry experience. Once you have your Civil Infrastructure Trades qualification, you will then need to complete another 2,000 hours of experience at a high level of skill to obtain your total 8,000 hours.



### ENTRY REQUIREMENTS

To complete this apprenticeship, you must be employed in the industry. It is recommended that those candidates who are new to the industry, either from school or from another industry, achieve the New Zealand Certificate in Infrastructure Works (Level 2) prior to undertaking an apprenticeship.

### HOW WILL CONNEXIS HELP ME?

A New Zealand Apprenticeship is a partnership between you, your employer and Connexis. You will be assigned a Connexis Customer Service Account Manager (CSAM) who will work with you to help guide you through the assessments and training, ensuring that you receive any help you might need to complete your qualification within the required time period.

- These qualifications are achieved on-job. Most assessment is based on evidence of practical skills you've learnt and discussions with your CSAM. You will:
- Receive a Connexis resource pack, which will include your workbooks and reference material
  - Gather evidence (like photos and worksheets) of the skills you learn and record your progress in a workbook
  - Meet with your CSAM to check on your progress and answer any questions you have about your training
  - Get your work assessed as you complete it



NZ CERTIFICATE IN CIVIL INFRASTRUCTURE TRADES

# CIVIL WORKS

with strands in Earthworks, Road Construction, Concrete Works (non-structural), and Road Maintenance



This qualification is for people working in a variety of settings including earthworks, road construction and maintenance, subdivisions, and general infrastructure works.

You will likely be doing work such as operating plant and machinery, using hand tools, general construction and maintenance tasks, and testing to ensure work meets quality standards.

## YOU WILL LEARN HOW TO:

- Implement safety and quality assurance requirements during civil works
- Interpret civil works plans
- Apply materials testing and compaction techniques
- Protect and maintain drainage systems, and apply drainage management techniques
- Apply a range of problem solving and communication skills relevant to civil works operations

You will also learn the skills needed for your chosen strand; applying industry standards and following procedures as a Civil Works Tradesperson undertaking work for Earthworks, Road Construction, Concrete Works (non-structural), or Road Maintenance.

NZ CERTIFICATE IN CIVIL INFRASTRUCTURE TRADES

# BITUMINOUS SURFACING CONSTRUCTION

with strands in Bituminous Mixes, Chipseal, and Slurry



This qualification is for people working in paving crews who are responsible for building and maintaining bituminous surfaces. It covers the use of a wide range of machinery and equipment and is relevant to a range of surfaces including roads, driveways, airport runways, and walkways.

## YOU WILL LEARN ABOUT:

- Hazards, health and safety, and environmental protection
- Materials, plant and equipment used in bituminous surfacing construction
- Quality controls for bituminous products produced onsite
- Identification and notification of nature and extent of site works

You will also learn the skills needed for your chosen strand; constructing quality bituminous mix layers, chipseal, or slurry surfaces.



NZ CERTIFICATE IN CIVIL INFRASTRUCTURE TRADES

# BITUMINOUS PRODUCT MANUFACTURING

with strands in Binder Manufacturing Operation, Bituminous Mixes Operation, and Bitumen Spraying Operation



This qualification is for people responsible for manufacturing surfacings and binders at bituminous mix plants.

## YOU WILL LEARN ABOUT:

- Hazards, health and safety, and environmental protection
- Surfacing, materials, supply chain and plant and equipment
- Quality controls
- Safe storing, handling and pumping of liquid bitumen
- Communication in a bituminous manufacturing environment

You will also gain the skills needed for your chosen strand:

**BINDER MANUFACTURING OPERATION** - the design, production planning and manufacturing of a range of binders.

**BITUMINOUS MIXES OPERATION** - preparation for production, operating bituminous mix plant to produce a wide range of surfacing products, and maintenance of bitumen plant and equipment.

**BITUMEN SPRAYING OPERATION** - Includes the distribution, blending and application of bituminous binders.

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NZ CERTIFICATE IN CIVIL INFRASTRUCTURE TRADES

# UTILITIES MAINTENANCE

with strands in Water, and Stormwater and Wastewater



Utilities Maintenance covers work in public areas (up to private property boundary) and includes:

- Planned maintenance (such as capital works, replacement of pipes, connections and fittings)
- Reactive maintenance (such as fault and leak repairs, removing blockages)

## YOU WILL LEARN HOW TO:

- Maintain water, stormwater and wastewater utility systems through maintenance and installation of pipes, pipe jointing, fittings and structures using industry standards and specifications
- Respond safely and efficiently to failures
- Work with limited supervision in a variety of contexts
- Communicate and maintain worksite and community safety

You will also gain the skills needed for your chosen strand:

### WATER

- Identification and repair of water reticulation faults, including scheduled and reactive works
- Hygiene and disinfection
- Installing new service connections
- Knowledge of pumping and water systems

### STORMWATER AND WASTEWATER

- Identification and repair of wastewater faults, including scheduled and reactive works
- Knowledge of stormwater and wastewater systems
- Unblocking, cleaning and maintaining wastewater systems and pump stations
- Overflow management and clean up

NZ CERTIFICATE IN CIVIL INFRASTRUCTURE TRADES

# PIPE INSTALLATIONS

with strands in Trenched, and Trenchless



**Pipe Installations covers the installation of new pipes, fittings and structures on public land owned by the Local Territorial Authority (LTA) up to private property boundary. It may also include any repairs of pipes within warranty period.**

## **YOU WILL LEARN HOW TO:**

- Communicate and maintain safety on the worksite and in the community
- Apply knowledge of pipes, fittings and structures installation processes, using industry standards and specifications

You will also learn the skills needed for your chosen strand; the installation of underground utilities using appropriate trenched, or trenchless installations methodology and technology.

## **FURTHER INFORMATION**

**WANT TO ENROL OR FIND OUT MORE? CONTACT US AND WE'LL PUT YOU IN TOUCH WITH YOUR LOCAL CUSTOMER SERVICE ACCOUNT MANAGER**

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