

CIVIL | ENERGY | TELECOMMUNICATIONS | WATER

Team-Up

with New Zealand
Infrastructure
Apprenticeships

connexis.org.nz



The Pipeline to your Skilled Workforce Starts here...

INFRASTRUCTURE APPRENTICESHIPS

By putting your team on a training and career pathway, you're building loyalty, improving efficiency and capabilities, and helping upskill your industry.

Apprenticeships aren't just for new starters. They're a great way to recognise the skills and knowledge of more experienced workers, or to skill-up people looking for a career change.

We offer apprenticeships across the Civil, Electricity Supply and Water Treatment sectors (see pages 5-9).

With 2-3 years of on-job training, your employees can achieve a nationally recognised Level 4 qualification. From there, they can start looking ahead to higher or more specialised programmes.

WHY TAKE ON AN APPRENTICE?

- *Build a crew with proven skills and competencies*
- *Gain a competitive edge when tendering for contracts*
- *Increase loyalty and team retention*
- *Instil a positive work culture where your people feel invested in and valued*
- *Boost productivity, capabilities and safety awareness*
- *Ensure best practice and procedures*



"Investing in training grows our people by increasing their knowledge, skills and abilities, and it also helps us retain staff."

Graeme Couper
DOWNER TRAINING
& DEVELOPMENT MANAGER

HOW IT WORKS

Our apprenticeships are mostly completed on-the-job, meaning your work sites are the classroom. Our Connexis Customer Service Account Managers (CSAMs) work with you to get people signed up and support you and your employees along the journey from sign up to completion.

Connexis has representatives all over New Zealand. To get your team signed up to an apprenticeship programme now, check out our map to find your local contact: connexis.org.nz/contact

ABOUT CONNEXIS

Connexis works with industry to upskill the infrastructure workforce for the Civil, Energy, Telecommunications, and Water sectors.

We offer NZQA - recognised apprenticeships and qualifications ranging from entry-level to Level 6 diplomas. We are a business division of Te Pūkenga New Zealand Institute of Skills and Technology.



INFRASTRUCTURE
APPRENTICESHIPS
ARE FUNDED

Apprenticeship Boost offered by the Ministry of Social Development (MSD) is a wage subsidy to support employers to retain and take on new apprentices. It is available until the end of December 2024.

To be eligible for this fund an employee must be:

- Actively training through a work-based training organisation or provider.
- Training for a New Zealand Apprenticeship or Managed Apprenticeship recognised by the Tertiary Education Commission (TEC).
- In their first 24 months of training (this includes any previous apprenticeship enrolment with the same work-based training organisation or provider).

See Work and Income’s Apprenticeship Boost webpage for more information on the funding amounts and application process: www.workandincome.govt.nz



JOURNEY TO SECURING
AN APPRENTICE

The apprenticeship pathway will vary depending on the sector and the apprentice. This is a base pathway structure showing where you start with signing someone onto an apprenticeship and the further opportunities after completing this.



WHY STOP WITH
APPRENTICESHIPS?

We also offer 30+ other training programmes across the sectors



Kat Kaiwai

PAVING THE ROAD
TO SUCCESS

Katareina Kaiwai understands the value of apprenticeships and training. They’ve taken her all the way to owning her own civil construction business, Tairawhiti Contractors, on the remote east coast of the North Island, north of Gisborne.

Kat completed her apprenticeship in Civil Infrastructure in 2020 after starting in the industry 12 years ago. She started her career as a “pen-pusher” in Wellington before moving to the Gisborne office of Fulton Hogan.

After three years, Kat was no longer satisfied with her desk job and asked for a position in the field. That meant starting at the bottom as a traffic controller, but it wasn’t long before she was working her way up and embarking on some training toward a NZ Apprenticeship in Infrastructure Works (Civil).

As managing director of Tairawhiti Contractors, Kat now employs around 20 locals and is committed to

training newcomers to the industry instead of “poaching” from other civil firms to fill a regional skills gap and provide capabilities beyond forestry and farming.

Kat sees industry training as the key to building her business and unlocking opportunities in the region. By investing in her people, training them in everything from traffic management to maintenance and road contracting, she says she can do work that usually requires crews from outside the region.

Although Kat had earned her tickets to work on much of the heavy gear used in road maintenance, embarking on a civil apprenticeship was a new level of on-job training for her.

It was not easy, she says, fitting training in between work and family life but gaining it was a proud day for Kat and her family. She has since gone on to become a Connexis assessor herself and is passionate about the many career paths open to people in the industry.



CIVIL TRADES CERTIFICATION



**BE EVALUATED
FOR CIVIL TRADE
CERTIFICATION**

To find out
more visit
civilcontractors.co.nz
or talk to your
local Connexis CSAM.

Civil Trades Certification (CTC), offered by Civil Contractors NZ, is a nationally recognised accreditation programme for civil contractors. It recognises both trade qualifications and certified hours of practical experience and leads to registration as a Certified Tradesperson.

HOW TO GET CIVIL TRADE CERTIFIED:

- Hold a Civil Infrastructure Level 4 Qualification or Apprenticeship.
- 8000 Hours of Practical Experience. This is around 4 years including 2000 hours at level 4 competency.

BITUMEN SURFACING CONSTRUCTION

NZQA#3775

CREDITS: 120

19 MONTHS

SKILLS COVERED:

- Assess and prepare a site for bitumen surfacing construction
- Implement quality work processes on a bitumen surfacing construction worksite
- Safely operate bitumen surfacing construction equipment and machinery
- Assess a worksite for health and safety
- Support and mentor a team on-site

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Single Site Supervision) (Level 4), Infrastructure Works (Projects) (Level 5), or Infrastructure Works (Contract Management) (Level 5)



CIVIL WITH STRANDS IN EARTHWORKS, ROAD CONSTRUCTION, AND ROAD MAINTENANCE

NZQA#2725

CREDITS: 120

21 MONTHS

SKILLS COVERED:

- Work safely on an infrastructure worksite
- Read site plans and carry out work to specifications
- Operate machinery and organise materials needed for your civil site works
- Communicate well within your crew

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Projects) or the New Zealand Certificate in Infrastructure Works (Contract Management) (Level 5)



ROADMARKING WITH STRAND IN TESTING

NZQA#3236

CREDITS: 95-120

19 MONTHS

SKILLS COVERED:

- Apply health, safety, and environmental management procedures to meet compliance requirements.
- Plan, coordinate and carry out roadmarking work tasks to meet contract specifications.
- A skilled operator will be able to carry out both remark and new work using an A-type or B-type applicator.
- Supervise a roadmarking team to complete daily work activities on a roadmarking site, to meet contract specifications.

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works Contract Management (Level 5).

FORESTRY EARTHWORKS

NZQA#3782

CREDITS: 120

19 MONTHS

SKILLS COVERED:

- Read and make plans for forestry earthworks
- Ensure you are working within environmental, sustainability and safety standards
- Work within a team and with other forestry users
- Meet worksite requirements using flexible work practices

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Single Site Supervision)(Level 4), Infrastructure Works (Projects) (Level 5), or Infrastructure Works (Contract Management) (Level 5)



PILING

NZQA#3966

CREDITS: 150

24 MONTHS

SKILLS COVERED:

- Install piles to job specifications
- Implement work plans and drawings
- Apply health and safety requirements
- Monitor site conditions and communicate with stakeholders on-site
- Meet compliance requirements on-site

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Single Site Supervision) (Level 4), or Infrastructure Works (Projects) (Level 5)





PIPE INSTALLATION

NZQA#4441 CREDITS: 120 20 MONTHS

SKILLS COVERED:

- Meet health, safety, environment, and quality assurance requirements when installing pipes.
- Apply knowledge of pipes, fittings, and structures to complete pipe installations to job specifications.
- Install pipes underground using appropriate trenched installations methodology and technology.

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Single Site Supervision) (Level 4), or Infrastructure Works (Projects) (Level 5)



PIPELINE CONSTRUCTION AND MAINTENANCE

WITH STRANDS IN DRINKING-WATER, WASTEWATER AND STORMWATER, AND TRENCHLESS TECHNOLOGIES

NZQA#3858 CREDITS: 160-163 25 MONTHS

SKILLS COVERED:

- Follow and make plans to construct and maintain pipelines
- Coordinate materials and operate the tools and equipment needed to construct pipelines
- Meet health and safety requirements while ensuring the safety of yourself and your crew
- Communicate well within your team while on-site

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Infrastructure Works (Single Site Supervision) (Level 4), or Infrastructure Works (Projects) (Level 5)



DRINKING-WATER TREATMENT WITH STRAND IN MULTISTAGE PROCESSES

NZQA#4138 CREDITS: 120 20 MONTHS

SKILLS COVERED:

- Protect public health and the environment
- Implement, monitor and communicate health and safety requirements
- Operate a drinking-water treatment plant using preliminary treatment processes to meet requirements
- Monitor drinking-water treatment plant operation and interpret compliance and operational data
- Sample, test and report drinking-water procedures for drinking-water treatment

Graduates of this Apprenticeship could progress to the New Zealand Diploma in Drinking-Water Treatment (Level 5)



WASTEWATER TREATMENT WITH STRAND IN MULTISTAGE PROCESSES

NZQA#4142 CREDITS: 120 20 MONTHS

SKILLS COVERED:

- Protect public health and the environment
- Implement, monitor and communicate health and safety requirements
- Operate a wastewater treatment plant using preliminary treatment processes to meet requirements
- Monitor wastewater treatment plant operation and interpret compliance and operational data
- Sample, test and report wastewater procedures for wastewater treatment

Graduates of this Apprenticeship could progress to the New Zealand Diploma in Wastewater Treatment (Level 5)

ADVANCED PORTFOLIO ASSESSMENT



APA significantly shortens the time and work required to gain one of our nationally recognised apprenticeships or training programmes.

It takes 6 to 9 months to complete and involves a series of assessments to credit existing skills and knowledge toward a qualification.

ELIGIBILITY:

- Has a minimum 5 years experience (8000-10000 hours) working in the relevant industry
- Has been working at the level of the qualification for the past two years
- Can provide evidence of prior work experience (e.g. worksheets, employer references, photos, videos)



FOR MORE DETAILS ON EACH APPRENTICESHIP VIEW THE BROCHURES AT [CONNEXIS.ORG.NZ/QUALIFICATIONS](https://connexis.org.nz/qualifications)





CABLE JOINTING HIGH VOLTAGE

WITH OPTIONAL STRAND IN 33KV

NZQA#2227-3

CREDITS: 157-192



25-30 MONTHS

SKILLS COVERED:

- Apply knowledge of electrical theory to the construction and preparation of cables
- Learn best practice to ensure the duties of a cable jointer are done safely and without disrupting electricity supply
- Undertake testing and commissioning procedures on power cables up to 22kV
- Apply codes, legislation and industry standards and procedures to the jointing and termination of live power cables up to 22kV

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Electricity Supply (Power Technician) (Level 5)



LINE MECHANIC DISTRIBUTION

WITH OPTIONAL STRAND IN LIVE LOW VOLTAGE LINES

NZQA#2197-2

CREDITS: 169-179



27-29 MONTHS

SKILLS COVERED:

- Work in the electricity supply industry as a Line Mechanic in the distribution sector
- Install, maintain and replace equipment at an intermediate level
- Gain communication skills
- Learn how to apply knowledge of electrical theory, and industry standards and procedures
- If you choose to complete the optional strand, you will also be able to install and replace hardware associated with live low voltage lines

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Electricity Supply (Distribution Live Line Stick) (Level 4), or Electricity Supply (Distribution Live Line Glove and Barrier) (Level 5)



NETWORK CONTROL

NZQA#3721-2

CREDITS: 146



23 MONTHS

SKILLS COVERED:

- Operate equipment to isolate, connect, control and monitor the electricity grid and distribution system
- Manage the electricity supply system equipment and work control
- Meet industry health and safety requirements
- Ensure asset owners' specifications are met during network plant operations

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Electricity Supply (Power Technician) (Level 5)



ELECTRICAL TRADE

WITH STRAND IN ELECTRICITY SUPPLY

NZQA#4204

CREDITS: 250



42 MONTHS

SKILLS COVERED:

- Apply knowledge of electrical theory, systems, equipment, machines, and electrical protection in an electrical environment
- Comply with electrical and relevant non-electrical legislation governing the work of electricians
- Communicate with stakeholders on electrical matters
- Install, commission, and maintain electrical services associated with distribution networks, power stations, and substations
- Carry out fault diagnosis and testing of electrical services associated with distribution networks, power stations, and substations
- Carry out installation and maintenance of electrical equipment

Graduates of this Apprenticeship could progress to the New Zealand Certificate in Electricity Supply (Power Technician) (Level 5)



TRACTION LINE (only through Kiwirail)

NZQA#3988

CREDITS: 131



21 MONTHS

SKILLS COVERED:

- Integrate health and safety procedures into workplace practice when carrying out work on traction line networks
- Apply knowledge of codes of practice, industry standards and operating procedures, and comply with asset owner requirements when installing or repairing traction line networks
- Apply knowledge of codes of practice, industry standards and operating procedures, and comply with asset owner requirements when maintaining traction line networks

Graduates of this Apprenticeship will be able to work as traction line mechanics



ANNUAL CONNECTION

CONEXIS

SHOWCASE YOUR CREW'S SKILLS

- Annual Connection connects, celebrates, and showcases the people and companies that work in and with the Electricity Supply Industry. Cable jointers and line mechanics from all over the country come together every year for this three-day event to battle it out to be recognised as one of New Zealand's best. Annual Connection culminates in a night of celebration with the Energy and Telecommunications Industry Excellence Awards.





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iJobsite.co.nz

**LIST YOUR
APPRENTICESHIP
OPPORTUNITIES
HERE...**



CONEXIS

 **Te Pūkenga**