



ice

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Kāpiti Coast Campus

47 Miro Street, Ōtaki 5512

Christchurch Campus

69 Shands Road, Hornby, Christchurch 8042

Dunedin Campus

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ENQUIRE NOW: icexl.co.nz OR 0508 442 395

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SPECIALIST
TRADES
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**GET
STUCK
IN**

**PLUMBING, GASFITTING
& DRAINLAYING**



Thinking of becoming a plumber, gasfitter, or drainlayer?
Awesome! We've got the info you need right here

Plumbers, gasfitters, and drainlayers love working with their hands, solving problems, and putting things together. If this sounds like a great way to spend your working day, you could have a bright future in the trades.

WHY BE A TRADIE?

START YOUR CAREER WITH NO STUDENT LOAN.

Earn a wage from day one, and finish your apprenticeship without a massive loan hanging over your head!

WORK THAT SUITS YOUR LIFESTYLE.

Work outdoors instead of being stuck in the same office all day. As your career grows, you'll have more freedom and flexibility in your schedule to fit in more time for the things that matter, such as family, hobbies, and interests.

A VARIETY OF EXPERIENCES.

No two days are the same! You'll get the chance to work on a wide range of jobs throughout your career.

WHAT DO PLUMBERS DO?

Plumbers do a wide variety of jobs, you could be working on a farm one day or a high rise building the next.

On any given day you could be:

- installing hot water cylinders in a multimillion dollar house
- doing bathroom renovations, putting in sinks, toilets, showers, and baths
- installing pipework in hospitals or aged care facilities
- working in an industrial plant installing pipes
- installing metal roofing and spouting systems

WHAT DO GASFITTERS DO?

Gasfitting is a versatile trade that can take you all over the world. They work with anything to do with gas, which could be installing:

- boiler systems in industrial buildings
- gas stoves and heating appliances in residential homes
- gas systems on food caravans, or boats
- gas cooking appliances in cafes and restaurants
- pipework in homes and businesses

WHAT DO DRAINLAYERS DO?

Like working outdoors? Drainlaying might be for you. You could find yourself:

- installing drainage pipes in new subdivisions
- maintaining the drains on heritage buildings
- using a digger to dig trenches
- installing environmental waste water systems

WANT TO DO IT ALL?

No worries, plumbing, gasfitting, and drainlaying are interconnected.

While they're separate qualifications, it's common to train in more than one industry.

BY THE NUMBERS

LENGTH OF APPRENTICESHIP

The length of your apprenticeship depends on what you're studying. Each trade takes a different length of time, and you can choose to do a combination. As a general guide, the approximate length of apprenticeship is:

Plumbing and Drainlaying: **4 years**

Plumbing, Gasfitting, and Drainlaying: **5 years**

Drainlaying: **2 years**

EARNINGS

Apprentice/trainee plumbers, gasfitters and drainlayers usually start on the training or adult minimum wage and can earn up to \$39 an hour as they gain skills and unit standards.

Newly licensed plumbers, gasfitters and drainlayers usually earn \$35 to \$42 an hour.

Licensed and experienced plumbers, gasfitters and drainlayers can earn between \$45 and \$53 an hour.

Those running their own business may earn more than this, but their income depends on the success of their business.

Source: Careers.govt.nz

WHERE CAN I GO?

Once you complete your apprenticeship, you'll be able to apply for the licenses you need to get sorted.

Many plumbers, gasfitters, and drainlayers get some experience under their belt, then start looking at taking on project management or supervising teams.

After a few years, many people get their certifying licence and go on to start their own business, increasing both their freedom and income. They also pay it forward by taking on apprentices of their own.

Others move into roles in the wider industry, such as consulting or teaching. Your plumbing, gasfitting, or drainlaying qualification is also recognised in other countries, so you can take your trade around the world.

IS IT FOR ME?

You'll need a special set of skills. While you'll learn all the technical bits in your apprenticeship, to start out you'll need to be:

- Responsible and well-organised
- Happy working outdoors in any weather
- Comfortable working in places that may be dirty or confined
- Physically fit
- Good at communicating with others
- Flexible with working hours, as evening, weekend and on call is sometimes required
- Able to present yourself professionally (you'll be representing your employer and interacting with clients and other people, like members of the public).



ABOUT US

OUR STORY

In 2015, New Zealand had a very big problem. Construction was booming, especially in the Auckland region, and there just weren't enough tradies to work on all those new homes and business premises.

Representatives from interested PGD industry groups were asked to meet and create a solution, and Industry Connection for Excellence (ICE) was established the following year to soak up the shortfall in PGD apprenticeship training in Auckland.

Quality teaching was cited by trainees as the main reason for switching to, and sticking with, ICE as their training provider. You might hear from other students that we make you work hard, and that is true. But what we also do, is help you to work smart. We don't just teach you to pass exams, we teach you to be the best you can be in your chosen career.

WHAT TO EXPECT FROM ICE

Our approach to teaching has always been, and will always be, to develop talented, independent, and motivated apprentices who excel in their chosen career. Our modern facilities are well equipped with general and specialist tools, equipment and materials, and our classrooms have interactive audio/video technology.

Our purpose-built drainage pits and gas containers are designed to give our trainees close to real world learning. Our trainers are all well qualified and have great experience as tradespeople. They have all had varied and interesting work experiences, and now are dedicated to sharing their knowledge with you.

**We have campuses located
in Auckland, Kāpiti Coast,
Christchurch and Dunedin.**



JOURNEY MAP:

PLUMBING & DRAINLAYING^{PD} / PLUMBING, GASFITTING & DRAINLAYING LEVEL 4, VERSION 3

PABC = Practical Assessment Block Course

YEAR 1

Meet with ICE Apprentice Manager and sign up



Receive welcome pack



Start learning on the job



Arrange and attend First Aid and Confined Spaces Course



Start Year 1 On-Job Assessments



Online Theory Sessions 1, 2, 3



Orientation and PABC 1: Draw & Form Patterns



Online Theory Sessions 4, 5, 6

YEAR 2



Online Theory Sessions 7 & 8



Start Year 2 On-Job Assessments



Once all Year 1 assessments completed, you will be allocated to Year 2



Attend the Height Safety Course



Complete all Year 1 Assessments



PABC 2: Sanitary Apps: As-built Drawings



PABC 3: Inspection Chambers: Interceptor Traps: Water mains



Online Theory Sessions 9, 10, 11



PABC 4: Foulwater Drains: Pumps: On-site wastewater treatment



Online Theory Session 12



PABC 5: Low Pressure HWC Systems: Stormwater: Wingwall



PABC 6: Water Supply: Sanitary Appliances



Online Theory Session 13



Start Year 3 On-Job Assessments



Once all Year 2 assessments completed, you will be allocated to Year 3



Complete all Year 2 Assessments



Gas Block 1: Gas Safety: Trade Science: As-built drawings for Gas



Online Theory Sessions 14, 15



PABC 7: Foul Water Systems



Online Theory Sessions 16, 17, 18



PABC 8: Roofing



Ready to sit PGDB Drainlaying Exam



Gas Block 2: Gas Pipework



Complete all Year 3 assessments

JOURNEY MAP:

PLUMBING & DRAINLAYING^{PD} / PLUMBING, GASFITTING & DRAINLAYING

LEVEL 4, VERSION 3 CONTINUED



Once all Year 3 assessments completed, you will be allocated to Year 4

YEAR 4



Start Year 4 On Job Assessments



Online Theory Session 19



PABC 9: Solid Fuel Space Heaters & Flues



Online Theory Sessions 20, 21



PABC 10: Backflow and Solar Water Heating

CONTINUED



Once all Year 4 assessments completed, you will be allocated to Year 5



Complete all Year 4 assessments



Gas Block 4: Ventilation: Meters: Flues: Flueless Appliances



Gas Block 3: Control & Safety Devices

CONTINUE FOR PGD QUALIFICATION



Ready to sit PGDB Plumbing Exam



Award of Plumbing & Drainlaying Qualification

YEAR 5



Gas Block 5: Installation & Commissioning Appliances



Gas Block 6: LPG Systems



Ready to sit PGDB Gasfitting Exam



Award of Gasfitting qualification

Your ICE Apprentice Manager will be in contact regularly throughout the programme to provide support and ensure progress is on track

JOURNEY MAP: DRAINLAYING

Block Course

YEAR 1

Meet with
ICE Apprentice
Manager and sign up



Receive
welcome pack



Start learning
on the job



Arrange and attend
First Aid and Confined
Spaces Course



Block 2: Theory Assessment,
Ethics & Other Trades, Job
Documentation, Stormwater
& Materials



Block 1: Theory Assessment, Gas
& Asbestos Hazards, Drains,
Trenching & Inspection Chambers,
Regulatory Requirements



Start Year 1
On-Job
Assessments

YEAR 2



Block 3: Theory Assessment, As-built
Drawings, On-Site Wastewater
Treatment Systems, Pumps & Trade
Waste Interceptor Traps



Block 4: Practical Assessment, Foulwater
Drains, Excavations, Inspection Chambers,
On-Site Wastewater Treatment Systems,
Stormwater Systems, Wingwall Structures,
Pumps, Interceptor Traps



Ready to
sit PGDB
Drainlaying
Exam



Award of
Drainlaying
Qualification

Your ICE Apprentice Manager will be in contact regularly throughout the programme to provide support and ensure progress is on track

FAQ

ON JOB LEARNING

Most of your learning will happen on the job. Your supervisor will show you how to do things and explain why they are done in a certain way. Your supervisor will also make sure you learn good work practices to ensure you and others are safe in the workplace.

We will provide you with booklets that have instructions for completing the on-job assessments listed in the New Zealand Certificate. These assessments can be done in any order and will depend on the range of work you are doing and when you are doing it.

If you work for a company specialising in a certain type of work, they may not be able to give you all the practical experience you need to complete the apprenticeship. In that case, your employer will need to arrange for you to work with another company so you can get the broad range of practical experience required.

OFF JOB LEARNING

Throughout your apprenticeship, you will attend practical block courses with a provider, these are usually 2 to 4 days in length. Most of these block courses are practical assessment blocks, so it's important that you set aside sufficient time to complete the related online theory learning and quizzes before you go to these block courses.

You will experience a combination of on job and off job training

