



VOCATIONAL  
PATHWAYS

**TOI-OHOMAI**

Institute of Technology

## Construction & Infrastructure Courses

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Architecture

Carpentry

Construction

Engineering

Land Surveying

Quantity Surveying

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# TOI-OHOMAI

Institute of Technology

## Kia ora and welcome to Toi Ohomai Institute of Technology

**Our name means to aim high and achieve great heights -  
to be awakened by learning**

We believe that your success is the key to the success of our whole region. That's why we're here to help make your dreams a reality.

Our five main campuses are located throughout the beautiful Bay of Plenty and South Waikato - in Rotorua, Taupō, Tauranga, Tokoroa and Whakatāne. We also have 86 extra delivery sites dotted across our region and almost 200 courses to choose from, including 25 courses which can be completed online. All of this makes it easy for more than 13,000 students to study with us every year.

This guide highlights all of the Toi Ohomai courses in the Construction and Infrastructure Vocational Pathway - preparing for industries like architecture, carpentry, construction, quantity surveying, and land surveying. If you're keen to plan, build or maintain our roads, residential and commercial structures, drainage systems, water supplies, and electricity and telecommunications networks, we're confident you'll find something here to inspire you.

Join us for your learning journey and let's discover your true potential!

CONNECT

[info@toiohomai.ac.nz](mailto:info@toiohomai.ac.nz)

0800 86 46 46

[toiohomai.ac.nz](http://toiohomai.ac.nz)





95%

Employers say our qualifications prepare students for their future needs

93%

Graduates use the skills and knowledge gained during their study in their job

91%

Students are satisfied with their course

84%

Students are employed soon after course completion

Disclaimer: Every effort has been made to ensure the information contained in this Vocational Pathway booklet is accurate at the time of printing in July 2018. However, no liability can be accepted for any errors or omissions or views expressed herein, and information is subject to change. Toi Ohomai Institute of Technology reserves the right to cancel or change the content, timing, method or place of delivery of any course.

# YOU'RE WELCOME HERE

Education is for everyone – we currently have students from 15 through to 82 and every age in between! Whether you're straight out of school, heading in a new direction, need to upskill to move up the career ladder, or just love a new challenge, you've come to the right place. Every member of our Toi Ohomai team is here to help you succeed. You'll also get plenty of opportunities to chill out and socialise with other students – there's heaps of fun stuff to do on campus.

## How to Apply



### STEP 1: SEND US YOUR APPLICATION

You can apply online at [toiohomai.ac.nz](http://toiohomai.ac.nz), in person at one of our campuses, or over the phone by calling one of our friendly team on 0800 86 46 46.



### STEP 2: WE'LL BE IN TOUCH

We'll let you know if you need to come in for an information session or interview (this is a requirement for some courses, but not for others). This is your opportunity to find out more about the course and check that it's the best fit for you, and allows us to make sure you meet the entry requirements. If you don't need to come in, you'll skip to Step 3.



### STEP 3: COMPLETE YOUR PAPERWORK

Complete your Study Agreement and associated paperwork, including your legal identification. If you're a domestic student, we'll encourage you to contact StudyLink now to make sure you receive any payments you're entitled to. If you need help with your StudyLink application, we can step you through it.



### STEP 4: RECEIVE YOUR ACCEPTANCE LETTER

Once we receive your completed Study Agreement and supporting documentation, you will receive an acceptance letter.



### STEP 5: PAY YOUR FEES

Ensure your fees have been paid before your course starts (if paying via StudyLink, make sure you complete your StudyLink application before your course starts).



### STEP 6: RECEIVE YOUR FIRST DAY LETTER

Your First Day letter has all the information you'll need to help you settle in.

### START STUDYING AT TOI OHOMAI

Welcome, it's great to have you with us!

# WHY TOI OHOMAI IS A GREAT CHOICE

## You're not just a number

Our smaller class sizes make learning easier and more engaging, helping you connect with your teachers and other students. We also offer loads of free support to suit your needs – research and writing tips, maths tutorials, tikanga Māori guidance and more!

## Real-life applied learning

Our students learn by doing, so you'll get plenty of valuable practical experience in the field you've chosen. All of our courses are aligned with industry needs to make sure you'll have a relevant qualification you can use to reach your goals.

## Build your network

More than 75% of our students spend part of their course undertaking work placements. This will give you the chance to impress potential employers and make valuable connections for the future.

## An exceptional team

Our passionate teachers are among the best in New Zealand – award-winning academic and industry leaders from an array of vocational fields. Prepare to be blown away by our team's dedication and enthusiasm; we all want you to succeed!

## Impressive facilities

We offer high quality teaching spaces, multi-sport recreational centres and outdoor areas, healthy smoke-free campuses, and convenient low-cost student accommodation.



## Flexible study options

Nervous about giving up your job? Check out our range of part-time and online courses, which may allow you to keep working while you're studying.

## Easy pathways to further study

In addition to all the Toi Ohomai degrees we offer, several of our diplomas also pathway directly into degrees offered by the University of Waikato (UoW) in Tauranga. This gives you the option to complete a diploma course, with all the benefits featured on this page, and then cross-credit what you've learnt to complete a UoW degree without having to leave this region.

## Experienced and future-focused

Toi Ohomai is only a few years old, but our origins lie in our two legacy institutes – Bay of Plenty Polytechnic and Waiariki Institute of Technology. These respected tertiary providers merged in 2016 to better cater for the needs of our region, resulting in one of New Zealand's largest tertiary institutes, Toi Ohomai Institute of Technology.



# STANDARD ACADEMIC ADMISSION REQUIREMENTS

These are the minimum academic requirements for Toi Ohomai courses based on their New Zealand Qualifications Authority (NZQA) level. Some courses may specify additional requirements, including domestic and international IELTS requirements, so please check the entry criteria for the course you are interested in or contact our Information Centre for assistance.

## **Certificate (Levels 1-3)**

Domestic and international students are required to provide evidence of ability to complete academic requirements

## **Certificate (Level 4)**

Domestic and international students will normally be required to have:

- NCEA Level 2 with passes in English/Te Reo Māori or education achievement at least equivalent to NCEA Level 2; or
- evidence of ability to complete academic and any other course requirements

## **Certificate or Diploma (Levels 5-7)**

Domestic students under 20 years of age and all international students must have:

- NCEA Level 2 with passes in English/Te Reo Māori or education achievement at least equivalent to NCEA Level 2, and a minimum of 42 credits at Level 3; or
- evidence of ability to complete academic requirements for the course

## **Bachelor's Degree (Level 7)**

Domestic students under 20 years of age and all international students must:

- meet the University Entrance criteria as specified by NZQA or have education achievement at least equivalent to NZQA University Entrance. Where an applicant did not attend schooling in New Zealand, the

relevant equivalent to University Entrance will be considered on a case-by-case basis; and

- meet all course entry requirements; or
- provide evidence of ability to complete academic and other requirements (special admission requirements)

## **Domestic students over 20 years of age:**

- students who do not hold a University Entrance qualification or equivalent may be eligible for admission to a bachelor's degree course subject to any entry and selection requirements specified in the respective course regulations and must provide evidence of their ability to complete academic requirements

## **Graduate Certificate or Graduate Diploma (Level 7)**

All students (domestic and international) must:

- have completed an undergraduate degree in any discipline; or
- have completed a minimum of a two-year diploma equivalent to NZQA Level 7 or higher in a related discipline; or
- be able to demonstrate at least three years' equivalent relevant practical and/or professional experience (a curriculum vitae must be submitted detailing relevant work experience and professional achievements)

## **Postgraduate Certificate or Postgraduate Diploma (Level 8)**

All students (domestic and international) must:

- have completed a graduate certificate, graduate diploma or a bachelor's degree in a related subject recognised by Toi Ohomai; or
- be able to demonstrate at least five years' equivalent relevant practical and/or professional experience; and
- provide evidence of ability to complete academic and other requirements (special admission requirements)

## Master's Degree (Level 9)

All students (domestic and international) must:

- have completed a bachelor's degree, bachelor's degree with honours, or a postgraduate diploma in a related subject recognised by Toi Ohomai; or
- be able to demonstrate at least five years' equivalent relevant practical and/or professional experience; and
- provide evidence of ability to complete academic and other requirements (special admission requirements)

## Special Admission

- a) where applicants do not meet all entry requirements, they may gain special admission if Toi Ohomai is satisfied the applicant is capable of meeting the academic requirements and where literacy and numeracy skills are sufficient to meet health and safety requirements
- b) no domestic student under the age of 16 years may be admitted for any course unless permission has been granted by the Principal of the school at which the student is enrolled or the student has been exempted from attending school by a designated officer of the Ministry of Education. Any such student must also demonstrate ability to be able to achieve at the level of tertiary study they plan to study.

## Additional Requirements for International Students

In addition to meeting the course entry requirements, international students must:

- have evidence of receipt of an appropriate visa; and
- be over 18 years of age (applicants between the ages of 14 and 18 years will only be accepted after an assessment of the student's support systems has been made)
  - a) international students must demonstrate their ability to meet the English language requirements of the course in which they enrol, including any professional requirements for English capability
  - b) unless otherwise specified in the course regulations, the English language requirements for students who come from non-English speaking backgrounds are those equivalent to:

Qualification Level	L3	L4	L5	L6	L7	L8 and Above
IELTS	General or Academic score of 5 with no band score lower than 5	General or Academic score of 5.5 with no band score lower than 5	Academic score of 5.5 with no band score lower than 5	Academic score of 6 with no band score lower than 5.5	Academic score of 6 with no band score lower than 5.5	Academic score of 6.5 with no band score lower than 6

- a) other approved English language tests may be used to demonstrate that the English standard is met
- b) exemptions from proof of English language proficiency criteria will comply with NZQA rules
- c) Toi Ohomai reserves the right to test students for English language proficiency at any time during their enrolment. Test results will be used to determine additional support requirements, where it is identified that students need additional support.

# NEED A JUMP-START?

Are you thinking about tertiary education but don't meet the entry criteria? Or perhaps you're interested in a trade, but can't decide between engineering, automotive or carpentry?

Our bridging courses will give you the confidence, knowledge and skills to succeed in higher level study. They can also help you choose the right career pathway.

## GETTING STARTED

		Rotorua	Tauranga	Taupo	Tokoroa	Whakatāne	Other
New Zealand Certificate in Skills for Living for Supported Learners (Level 1)	1 year	•	•				
New Zealand Certificate in Foundation Skills (Level 2)	1 trimester	•	•	•	•	•	•
New Zealand Certificate in Foundation Skills (Level 2) – Trades	1 trimester	•	•	•	•	•	•
New Zealand Certificate in Study and Career Preparation (Level 3) – Study and Career; Police and Services	1 trimester	•	•	•	•	•	•
New Zealand Certificate in Study and Career Preparation (Level 4)	1 trimester	•	•	•	•	•	

Courses are subject to sufficient demand at each location.

# FINANCIAL INFORMATION

## Fees Free – what it means

The first year of a tertiary course or the first two years of industry training are now fees free for school leavers and for anyone else who has completed less than half a year of tertiary study.

General 'fees free' criteria:

- NZ citizen or resident of any age
- less than six months' previous tertiary study at Level 3 or higher
- for full-time or part-time study
- if students don't use all their 'fees free' allocation in the first year (i.e. if they are part-time or start studying mid-year), they can use the remainder the following year
- usually covers tuition fees and compulsory costs – living costs and some other costs are not included

Visit [www.feesfree.govt.nz](http://www.feesfree.govt.nz) and enter your National Student Number (NSN) to check if you qualify.

Please note that most of our Level 1 and 2 courses are fees free for all domestic students.

## Financial Assistance

Make sure you check out all of the financial assistance available to you such as:

- scholarships (ask our Information Centres or click on the Student Services tab at [toiohoma.ac.nz](http://toiohoma.ac.nz))
- student loans and allowances (ask our Information Centres or visit [www.studylink.govt.nz](http://www.studylink.govt.nz))



# YOUTH PATHWAYS



## Secondary Tertiary Programmes

(STAR, Trades Academy and Gateway)

These programmes give secondary school students free access to selected Toi Ohomai courses while they are still at school. Students can use the credits gained in this programme towards a Level 1, 2 or 3 qualification and can also earn Vocational Pathway endorsements. Contact the careers advisor at your school for more information. Places are limited and conditions apply.



## SmartPaths

Year 12 and 13 students can access the SmartPaths programme in a variety of ways, depending on your location and area of interest. Some students enjoy a one-day experience at one of our campuses, while others take a year-long Toi Ohomai course conveniently taught at their school, allowing them to learn new skills in areas like horticulture, automotive, marine studies and sports leadership. Contact the careers advisor at your school for more information.



## Student for a Day

Trying to decide what to study? If you're a senior student and you want to experience a particular course first-hand to help you make your decisions, try our Student for a Day programme. Complete the online form on our website under Secondary School Services. This programme is only available at our Windermere Campus in Tauranga.



## Fees Free through Youth Guarantee

Struggling with school? Youth Guarantee programmes are fees free for students aged 16 to 19. Learn practical skills and get on the pathway to your chosen career. Places are limited and conditions apply.



## Māori and Pasifika Trade Training

Te Ara Poutama – SkillME improves employment opportunities for Māori and Pasifika learners aged 16 to 40 by providing fees free tailored education and training and possible entry into an apprenticeship. The scheme offers mentoring and support throughout the training and employment-seeking process, and assistance with goal-setting and work readiness preparation. Places are limited and conditions apply.

# CAMPUS SERVICES

We provide some pretty amazing campus services at student prices!

- aquatic, fitness and recreation centres
- automotive workshops
- beauty and hair salons
- cafés
- childcare centres
- computer services team, computer labs and Wi-Fi – all free for student use
- copy centres

Watch out for term time treats from the hospitality students too – serving up a selection of tasty delights from their own pop-up cafés.

Not all services are available at all campuses. Please ask our Information Centre if you'd like to know more.

## Academic Assistance

Our learning facilitators are always available to offer advice and advocacy services to help you reach your academic goals. Topics include:

- academic writing
- computing support
- essay and report writing
- library support
- mathematics
- referencing
- study skills
- time management
- online learning resources

## Careers Services

Choosing a career pathway that best reflects your passion, skills and strengths can sometimes be a daunting process. Our careers team offer online and face-to-face services across all of our campuses to support you on your journey.

## Equity Support Services

Our equity facilitators are keen to ensure you get all the help you need to succeed at Toi Ohomai. They offer:

- advocacy and advice
- ergonomic equipment
- exam and test support
- note-taker support

## Health Care

The health care team provides a range of free and subsidised health services at our Rotorua and Tauranga campuses. Discretion is always assured.

- counselling services
- first aid
- health education and awareness
- mental health and community support services
- onsite nurses
- onsite physiotherapy
- sexual health services
- quit smoking support
- stress management

## Māori Cultural Support

Traditional Māori pōhiri are important ceremonies that welcome new students to our campuses. At Mokoia Campus, in Rotorua, pōhiri are held at our own Tangatarua Marae. Windermere Campus, in Tauranga, features the Pomare wharenuī, as well as a Kōhanga Reo childcare facility.

## Prayer Facilities

Prayer rooms are available 24 hours a day, seven days a week, at Tauranga's Bongard Centre, and the Mokoia and Windermere campuses.

# VOCATIONAL PATHWAYS

The following pages provide information about all of the Toi Ohomai courses in the Construction and Infrastructure Vocational Pathway.

It is one of the six Vocational Pathways designed by the government to help identify the type of job you would like and the subjects and courses you'll need to take to reach your goals.

Vocational Pathways also provide a framework to demonstrate the value of

your education to the workforce, aligning your learning to the skills required by each of the six industry sectors.

If you have no idea what job or career you want to pursue, the Vocational Pathway tools can also demonstrate how your strengths and interests relate to a wide range of job and study options. To get started, visit [www.youthguarantee.net.nz](http://www.youthguarantee.net.nz) and try the Profile Builder.





# CONSTRUCTION & INFRASTRUCTURE

This sector involves physical, outdoor work – putting things together to create something new. You'll use tools and machinery to change lives or make dreams come true.

You'll move around from site to site, working with lots of different tradespeople, contractors, and clients. You'll be part of a team that's committed to getting the job done properly and safely to meet each client's specifications.

Be part of a vital, booming industry as you design, build, maintain, or repair our country's infrastructure.

Ref: [www.youthguarantee.net.nz](http://www.youthguarantee.net.nz)



Courses are subject to sufficient demand at each location.



Practical,  
Detailed,  
Analytical,  
**Hands-on,**  
**Outdoorsy,**  
Adventurous,  
Creative?

**ARE  
YOU...**



# ARCHITECTURE

## New Zealand Diploma in Architectural Technology (Level 6)

Duration	Study Option	Locations	Credits
2 years	Full-time	Tauranga	240

Recommended school subjects: Maths, English, Graphics, Science, Geography

Do you love buildings and would like to be involved in the design process, creating something that future generations will enjoy? The construction industry is booming and needs more architectural technicians to design all the new buildings that our growing population needs. This practical course develops efficient technical drafting skills – focusing on what is and isn't important across a broad range of projects – which means our graduates are highly prized by employers.

You'll learn how to communicate effectively between an architect and a builder, producing the vital set of legal plans each construction project depends on. Topics include building materials, construction methods, legislation, design principles, working drawings, hand drawing and CAD drawing, tender processes, building feasibility, and building services, with a huge focus on the 3D BIM software programme ArchiCAD.

This will prepare you for a diverse range of roles as an architectural technician, CAD technician, draftsman, building certifier, or building inspector. If you're an accurate, detail-oriented person who loves graphics and discussing ideas with people, this is the course for you.

## Graduate Diploma in Building Information Modelling\*

Duration	Study Option	Locations	Credits
1 year	Full-time	Tauranga	120

## CAD for Architectural Drawing 1 (Level 3)

*Training Scheme*

Duration	Study Option	Locations	Credits
1 year	Part-time	Rotorua, Tauranga, Taupō, Tokoroa, Whakatāne, and other regions	20

\*Pending approval

Training Schemes not eligible for student loans or allowances

# CARPENTRY, CONSTRUCTION & QUANTITY SURVEYING

## New Zealand Certificate in Construction Trade Skills (Level 3)

Allied Trades

Duration	Study Option	Locations	Credits
1 trimester	Full-time	Rotorua, Tauranga, Taupō, Tokoroa, Whakatāne, and other regions	60

Recommended school subjects: English, Maths, Wood Technology, Hard Materials Technology

Prepare to enter the construction industry across a range of areas, including as an apprentice. You'll work on a variety of projects to develop skills in carpentry, gib fixing, plastering, and painting.

You'll learn about safety, tools, materials, construction terminology, construction tasks and projects, processes and techniques. You'll also enjoy trips to local construction sites and visits from industry experts.





## New Zealand Certificate in Construction Trade Skills (Level 3)

### Carpentry

Duration	Study Option	Locations	Credits
1 year	Full-time	Rotorua, Tauranga, Taupō, Tokoroa, Whakatāne, and other regions	120

Recommended school subjects: English, Maths, Wood Technology, Hard Materials Technology

An ideal course if you'd like to enter construction or pursue an apprenticeship in carpentry. You'll learn about safety, tools, materials, construction terminology, construction tasks and projects, processes and techniques.

You'll enjoy trips to local construction sites and visits from industry experts. You'll also work as part of a team to build a house or similar structure.



## New Zealand Certificate in Carpentry (Level 4)

### Managed Apprenticeship

Duration	Study Option	Locations	Credits
Up to 4 years	Part-time	Rotorua, Tauranga, Taupō, Tokoroa, Whakatāne, and other regions (blended)	320

Recommended school subjects: English, Maths, Wood Technology, Hard Materials Technology

Get your carpentry trade qualification with this flexible building course, which can be completed while you work.

You'll be employed as an apprentice by your builder, and enrolled with Toi Ohomai as a part-time student. Off-the-job learning is a mixture of night classes, day release, and class blocks, with some online learning as well.

You'll learn all about concrete structures, support structures, walls, roofing, joinery, interiors and exteriors, alterations, and additions – all with a focus on carpentry – and to finish you'll complete a capstone project.

Toi Ohomai manages the apprenticeship process from start to finish, working with employers and supervisors to train their apprentices to produce the best possible carpenters.

*When Mehdi El Barakat arrived in New Zealand, he went straight into the Certificate in Carpentry Level 4 course, Toi Ohomai's building apprenticeship programme.*

*He now works for a local residential construction company and plans to continue training with Toi Ohomai's level 4 supervisor and level 5 management courses so he can eventually run building sites.*

*"I love that you can give me a piece of land and six months later I can give someone a key to their new home – I am building someone's future."*

**Mehdi El Barakat**



Blended – a mix of campus classes and online learning



## New Zealand Certificate in Construction Related Trades (Supervisor) (Level 4)

Duration	Study Option	Locations	Credits
1 year	Part-time	Tauranga (blended)	58

**Recommended school subjects:** English, Maths, Wood Technology, Hard Materials Technology

A great course for tradespeople – like plumbers, painters, carpenters and bricklayers – who have moved up, or want to move up, to a site supervisor role.

You'll learn everything you need to know about leadership and all the vital paperwork and regulations every construction project depends upon. You'll learn to implement site safety plans, manage specifications and quantity lists, meet employment regulations, and manage conflict.

With the choice to attend classes in person on campus, or online in real time, this is an easy way to upskill and future-proof your career while you are working.

## New Zealand Certificate in Construction Related Trades (Main Contract Supervision) (Level 5)

Duration	Study Option	Locations	Credits
1 year	Part-time	Tauranga (blended)	57

**Required:** Must complete New Zealand Certificate in Construction Related Trades (Supervisor) (Level 4) first, or equivalent

This course suits people who are already working as a main contract supervisor in a construction related industry, or for people who want to move into the role.

You'll gain the essential knowledge, skills, and aptitude to work as a main contract supervisor on projects constructing medium sized buildings. You'll learn how to supervise workers and subcontractors using effective communication and planning to ensure commercial safety, technical, quality and productivity standards are met.

Blended – a mix of campus classes and online learning

## New Zealand Diploma in Construction (Construction Management) (Level 6)

Duration	Study Option	Locations	Credits
2 years	Full or Part-time	Tauranga (blended)	240

Recommended school subjects: Maths, English, Science, Geography, History, Hard Materials Technology

This course focuses on the supervision and management of construction sites to ensure contracts are completed on time, on budget, and to a high standard. If you're detail-oriented, with good communication skills and the ability to make clear decisions, this could be the right career path for you.

You'll visit different sites and follow the construction of a house project. You'll learn about tender processes, building materials, site planning, environmental impacts, commercial construction, communication, and management.

Graduates will need additional construction site experience to undertake a construction manager role in the industry.

## Postgraduate Diploma in Project Management\*

*Construction*

Duration	Study Option	Locations	Credits
1 year	Full-time	Tauranga	120



\*Pending approval

If a course is offered full-time or part-time, the duration listed in this guide is the full-time equivalent.

Blended - a mix of campus classes and online learning

## New Zealand Diploma in Construction (Quantity Surveying) (Level 6)

Duration	Study Option	Locations	Credits
2 years	Full or Part-time	Tauranga (blended)	240

**Recommended school subjects:** Maths, English, Science, Accounting, Economics, Hard Materials Technology

The construction industry is booming and needs more quantity surveyors and estimators. During this diploma you'll learn about measurement and construction methods, estimating, building legislation, tendering, contracts, cost planning, financial administration, and more.

Quantity surveyors are usually involved in the construction process from conception until completion; their role is to manage the financial side of a construction project. It's a bit like accounting, but you'll be working on physical projects while they're being constructed so things will constantly change, which will provide new challenges to keep things fresh.

There's a lot of office work, but also plenty of scope to visit building sites and monitor progress before releasing payments. Communication and negotiation skills are also required to ensure everyone stays committed to the task at hand.

If you have an interest in construction and love working with numbers, this is the course for you.

*George Thompson has always been passionate about construction. What he loves most is being able to watch a building evolve from a beginning concept to a finished project.*

*In his second year of the Diploma in Construction course, George secured a junior position at iLine Construction and was able to balance work with part-time study. The company then offered him a quantity surveyor role when he graduated.*

*"Construction is a great industry to be in right now. With the government planning on building a lot more houses and the increasing infrastructure for our growing population, there is going to be loads of work for a while. If it all dries up, it is an easy profession to travel with."*

**George Thompson**



If a course is offered full-time or part-time, the duration listed in this guide is the full-time equivalent.  
Blended - a mix of campus classes and online learning

# ENGINEERING

## New Zealand Diploma in Engineering (Level 6)

*Civil; Electrical; Mechanical*

Duration	Study Option	Locations	Credits
2 years	Full or Part-time	Tauranga	240

**Recommended school subjects:** Maths, Physics, Science, English, Electronics, Metal Technology

With a worldwide shortage of skilled people in the engineering sector, it is the perfect time to start one of these diplomas.

You'll hone your analytical skills in a variety of technical areas, such as mechanical design, thermo-fluids, infrastructure, electrical design, and more. Our well-equipped labs will allow you to complete a range of practical experiments, and field trips will provide valuable insights into local workplaces.

With the right balance of applied academic study and practical skills, these courses will prepare you for great employment opportunities or degree level study within the engineering sector.

### **Civil:**

You'll gain skills to enter a career path within the busy construction sector, playing your part in the design and construction of different types of buildings and infrastructure. Topics include road design, structures, geotechnical engineering, and water or waste systems.

### **Electrical:**

You'll learn how to design and interpret technical electronic instructions and develop, install, test, and maintain the different types of equipment used to produce, transmit and use power. Topics include power generation, sustainable energy, and electrical and electronic principles and applications.

### **Mechanical:**

You'll learn how to produce safer, cheaper, and more efficient machines and mechanical systems. Topics include material properties, component and machinery design, thermo-fluids, and manufacturing.

*Chelsea Oliver earned the top student award at the end of her Diploma in Engineering course. At the same time, her summer job at a roading company morphed into a full-time civil engineering technician role.*

*"It's really satisfying to be able to apply the work we learnt during our studies. It's challenging - there's a lot of planning involved and thinking outside the square, and there's a lot of responsibility on you to make sure everything is as safe as possible. I'm learning something new every day."*

**Chelsea Oliver**



If a course is offered part-time or full-time, the duration listed here is the full-time equivalent.

# LAND SURVEYING

## New Zealand Diploma in Surveying (Level 6)

Duration	Study Option	Locations	Credits
2 years	Full or Part-time	Tauranga (blended); online	240

This course is designed for people who are already working in the surveying industry, who want to upskill and boost their qualifications.

Our flexible delivery style allows you to work and study at the same time, and also caters for remote learners.

You'll cover topics such as cadastral surveying, land tenure, survey mathematics, the global navigation satellite system, and advanced error analysis.

This will enable you to advance your career, working for survey firms, engineering consultancies, the mining industry, infrastructure engineering contractors, or GIS consultancies.



Blended - a mix of campus classes and online learning

If a course is offered full-time or part-time, the duration listed in this guide is the full-time equivalent.

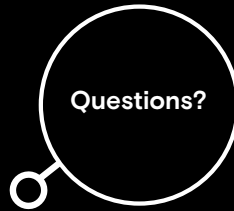


# HOW TO APPLY

Either in person, by phone, or online

Before you apply you'll need to make sure you have the following information:

Date of birth  
Address  
Contact numbers  
Email address  
Your tertiary qualifications (if applicable)



Phone 0800 86 46 46  
Email [info@toiohomai.ac.nz](mailto:info@toiohomai.ac.nz)  
Website [toiohomai.ac.nz](http://toiohomai.ac.nz)

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## Financing your study

Once you've decided what you want to study, there are numerous funding options available and our friendly team are here to help. Pop in to see them on campus or give us a call.

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### LOANS & ALLOWANCES

All of our full-time courses qualify for student loans and student allowances through StudyLink. Some part-time courses qualify for student loans too.

Student loans are available to help you meet costs while you're studying – such as fees, course-related costs and living expenses. You'll need to repay the loan once you finish studying.

Student allowances are also available to help eligible students with living expenses. Student allowances don't have to be repaid.

Find out more at [www.studylink.govt.nz](http://www.studylink.govt.nz) or call StudyLink on 0800 88 99 00.

We advise you to apply early – as soon as possible! Student loans and allowances are subject to eligibility.

### SCHOLARSHIPS & GRANTS

We offer a range of scholarships and grants for all sorts of people, not just straight-A students. For more details, visit one of our Information Centres or click on the Student Services tab on the [toiohomai.ac.nz](http://toiohomai.ac.nz) website.

You can also check the nationwide givME database with your careers advisor, on your school internet account, at your local library, or at our Information Centres or libraries.



# TOI-OHOMAI

Institute of Technology

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