



New Zealand Certificate in Mechanical Engineering (Level 3)



Domestic fee: \$8,277 OR free through the Youth Guarantee Scheme if you're 16-19 years old (conditions apply, see below left)

International fee: \$23,400

Compulsory student levy >
StudyLink >

*Fees are approximate, subject to change and exchange rates

Location Dunedin
Duration One year full-time

Level 3
Start February
Apply Until start date

Are you a practical kind of person who enjoys making things work? Or perhaps you are seeking an engineering apprenticeship?

Either way, this is the programme for you and is the perfect qualification for those wishing to enter the engineering trades.

Mechanical Engineering involves the design, manufacture and maintenance of machinery, equipment and tools, and the industry has experienced significant growth over recent years due to developments in engineering processes.

Due to this, there are numerous employment opportunities in areas such as toolmaking, fitting and machining, and trades associated with the heavy and light fabrication industries. With a responsible attitude, you may even step up into project management.

This hands-on, pre-apprenticeship programme will give you ample opportunity to work within our workshops and to gain valuable off-site work experience.

Upon completion, you will have achieved the academic requirements of the first year of an industry apprenticeship*. This may reduce the time for you to complete out in industry down to two years.

Mechanical Engineering roles may include a CNC Machine Operator, Machine Operator, Specialist Production Welder, Metal Worker/Fabricator, Ducting Fabricator, Pipe Fitter/Welder, Metal Polisher or a Pattern Maker Trade Assistant.

Programme contacts:

Rowena Gregg (Administrator): Rowena.Gregg@op.ac.nz | 03 4704354
John Stocks (Programme Leader): John.Stocks@op.ac.nz | 03 4703959

*Apprenticeship opportunities within New Zealand are only available for domestic students.

Entry requirements

- > NCEA Level 1 with 10 credits in Numeracy (algebra, trigonometry, measurement recommended) and 10 credits in Literacy, OR
- > Equivalent knowledge and skills, OR
- > Successful completion of engineering literacy and numeracy assessment.
- > In exceptional circumstances, an applicant under 20 who does not meet the academic entry requirements may be granted entry to the programme where they supply evidence of their ability to succeed on the programme.
- > International students will be individually assessed to ensure they have an acceptable level of secondary school achievement.
- > If English is not your first language, you must provide:
 - > New Zealand University Entrance OR
 - > Overall Academic IELTS 5.0 with no individual band score lower than 5.0 (achieved in one test completed in the last two years), OR
 - > Acceptable alternative evidence of the required IELTS (see here for NZQA proficiency table and here for list of recognised proficiency tests).

If you need to improve your English Language skills, we offer a wide range of English programmes.

Skills required

- > Practical thinking
- > Analytical and problem-solving skills
- > Good computer skills
- > Planning and organisational ability
- > Excellent communication skills.

Youth Guarantee Scheme information

If you are a 16-19 year old and feel that school didn't work out for you, you may be able to study this programme via our Youth Guarantee Scheme and pay no fees. This also applies if you are going to be 15 years old at the time that this programme starts and you have an early exemption from school.

To be eligible for Youth Guarantee funding, you must:

- > Be a domestic student between 16-19 years old
- > **OR** be 15 years of age at the time when you commence the programme AND have an early leaving exemption from your school
- > Not already hold a Level 3 qualification in any subject
- > Have been thinking about leaving school and getting a job OR prefer to be working towards a career rather than staying at school OR have left school and are not sure how to enter higher education or employment
- > Want to learn practical skills
- > Be more motivated in a non-school setting and be prepared to enrol in a full-time programme.

Fees and allowances

The Youth Guarantee Scheme will cover tuition fees, material and equipment costs of your programme of study. 18-19 year olds enrolled in fees-free Youth Guarantee qualifications will now be able to access the course-related costs part of the student loan and student allowances if they meet the eligibility criteria. Those under 18 years old will not be able to access any part of the student loans. Funding for travel is available, conditions apply. Please visit the Studylink website for full details. We strongly recommend that you read this carefully prior to applying for this programme.

The process

- > There is not a separate Youth Guarantee application form. Please apply for this programme by using our standard Otago Polytechnic application form. To apply online, or to download a paper version, click the apply button at the top right hand corner of this page.
- > If you meet the criteria for Youth Guarantee funding you will be offered the funding if it is available. We will ask you to let us know within two weeks if you do not wish to take up the funding.
- > If there is no Youth Guarantee funding available, we will send you a letter advising you of this. Along with this letter, you will receive an invoice, terms and conditions, a Studylink brochure and an equipment list advising what you will need to purchase before starting your programme.

Additional documentation

You must supply certified copies of proof of identity, academic records, proof of residency (where appropriate) and curriculum vitae.

Additional costs

You need to buy all of your stationery, safety equipment and clothing before the programme starts. However, please do not buy anything until you have been offered a place on the programme and have accepted that place. You will only need your writing materials on the first day so please only bring these along.

Stationery:

- > Pens (blue)
- > Two highlighters
- > One, 0.5 mechanical pencil with a pack of replacement H leads
- > One, 0.5 mechanical pencil with a pack of replacement HB leads
- > 40 cm ruler
- > Eraser
- > Small protractor
- > Two Sharpie permanent marker pens
- > Four A4 L pocket files
- > Calculator - FX82 scientific
- > A5 note book Esselte (hard cover)
- > 8GB USB stick
- > Head phones/plugs, wireless or corded (must have 3.5mm plug for i-Pad)

Safety equipment and clothing (compulsory):

- > Two pairs of Navy/Yellow Cotton zip overalls \$85.00*
- > Safety Boots No. 8 (AS/NZS 2210.3), slip-on or lace-up: \$66.09*
- > Welding Gloves - gauntlet (red or blue): \$10.90*
- > Welding Tigga Gloves: \$10.90*
- > Leather general purpose Work Gloves: \$6.90*
- > Machining Gloves - Nitrile Cut 5: \$9.47
- > Earmuffs (Neckband Grade 5): \$28.00*

* Prices are exclusive of GST

All clothing and equipment can be purchased at:

Road Materials
4-6 Forth Street
Dunedin

You will study

The Certificate is made up of nine compulsory modules (listed below). These are made up of a mixture of practical and theoretical components. The nine modules incorporate assessment against 27 registered NQF unit standards.

1. Health and Safety
2. Calculations
3. Drawing
4. Machining
5. Fabrication
6. Welding
7. Workshop skills
8. Process quality
9. Communication

Off-site practical work experience is also incorporated within the programme and will comply with Otago Polytechnic health and safety requirements and requirements for contracts with employers.

Programme specific risks

You will be working with the latest industry-relevant technology, machines, pressing equipment and chemical dyes and may also spend time working in industry. All safety requirements will be explained in detail at the beginning of the programme. Safety shoes and safety glasses are required to be worn in all workshops at all times .

Further study options

This qualification can lead to, but is not a prerequisite for, the following qualifications (an apprenticeship within industry at Level 4 Mechanical Engineering):

- > New Zealand Certificate in Mechanical Engineering (Trade) (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Metal Forming, and Toolmaking
- > New Zealand Certificate in Engineering Fabrication (Trade) (Level 4) with strands in Heavy Fabrication, Light Fabrication, and Steel Construction

Domestic students

Expand your employment potential by completing an apprenticeship and then advancing your skills with our New Zealand Diploma in Engineering (Mechanical).

International students

Whilst you cannot enter an apprenticeship within New Zealand, you do have the option of progressing into our New Zealand Diploma in Engineering (Mechanical) to enhance your knowledge and skills.

Your workload

You will be expected to complete up to 30 hours of contact time at Otago Polytechnic and up to 15 hours of additional self-directed study per week; with an additional 120 hours of work experience will be required for completing as part of the programme. Usual timetable hours are Monday to Friday, 8:00am-4.30pm, which will include some self-directed hours.

Student loans and allowances

Student loans and allowances are for domestic students only. For information about student loans and allowances please visit the Studylink website. It is important to apply for your student loan/allowance at the same time as you apply for this programme, due to the length of time Studylink take to process.

Loan/allowance applications can be cancelled at any time if you decide to withdraw your programme application or if it is unsuccessful.

Recognition of prior learning

If you have extensive knowledge and skills due to practical experience in this area, enquire about our recognition of prior learning process at Capable NZ. You may have already gained credits towards this qualification.

Disclaimer

While every effort is made to ensure that this sheet is accurate, Otago Polytechnic reserves the right to amend, alter or withdraw any of the contained information. The fees shown in this document are indicative ONLY. Both domestic and international fees are subject to change and are dependent on the development and implementation of Government policies. Please note that additional fees may from time to time be required for external examination, NZQA fees and/or additional material fees.

International **+64 3 477 3014**
New Zealand **0800 762 786**
Email **info@op.ac.nz**

Dunedin Campus
Forth Street, Dunedin
Private Bag 1910
New Zealand 9054

Central Otago Campus
Corner Erris & Ray Streets
PO Box 16, Cromwell
New Zealand 9342

Auckland Campus
Level 2, 350 Queen Street
PO Box 5268, Auckland
New Zealand 1141