



OSTC Introduction to Engineering



If you want to apply, please talk to your career advisor.

Location Dunedin
Delivery One day a week for the school year.

Interested in engineering?

This one day a week course will give you all you will need to apply for the New Zealand Diploma in Engineering, which is in high demand from employers.

This hands-on course will teach you about mechanical, civil and electrical engineering, and the many different career pathways that are on offer.

What will I do?

You will attend Polytechnic for one day a week. For some of the time you will be working in the Otago Polytechnic engineering workshops, carrying out experiments and investigations. You might be making and investigating the properties of concrete, testing the strength of a steel rod, working in our EPIC Centre, or studying electrical circuits. While you are doing this, you will be learning to work and communicate effectively in a team.

You will also visit some commercial engineering sites, and explore the many career options available.

You will spend some time learning maths and physics for engineering, and, providing you have at least 4 level 1 (or higher) credits in reading and 4 in writing, you will gain enough maths equivalent credits to apply for the Diploma of Engineering, without having to do the bridging course first. *(These maths credits will not count as part of your NCEA or UE numeracy requirements)*

What could I do next?

- > Gain the New Zealand Diploma in Engineering (mechanical, electrical, or civil)
- > Go on to get the Bachelor of Engineering Technology.
- > Gain an apprenticeship for paid, on-the-job training

Where could this take me?

- > Civil, mechanical, and electrical engineer
- > Maintenance engineer
- > Engineering technician

For more information about these careers, visit <https://www.careers.govt.nz/>

For more information about OSTC, visit www.op.ac.nz/ostc

Unit standards covered in this course

Unit	Title	Credits	Level
4251	Plan a career pathway	3	3
9681	Contribute within a team or a group that has an objective	3	3
8824	Research a topic using oral, visual and written sources and evaluate the research process	3	2
7123	Apply a problem solving method	3	2
29399	Demonstrate and apply knowledge of trade calculations to solve problems for mechanical engineering trades	4	3
29397	Demonstrate knowledge of basic trade calculations and units of measure for mechanical engineering trades	4	2
15847	Demonstrate knowledge of mathematics and mechanics for electrical trades	4	2
30692	Perform basic calculations used in a given trade situation	2	2
Total		26	

Please note: All our programmes will run subject to demand and capacity.

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.



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