INDUSTRIAL DESIGN TECHNOLOGY
2TECI

What is this course about?

In Level 2 Industrial Design, students will build on the skills they learned in Level 1. They will learn how to use more advanced tools and machinery, and how to use CAD software to design more complex products. They will also learn how to apply safe work practices in the workplace.

Students will complete a series of projects throughout the year, each of which will focus on a different aspect of industrial design. For example, they might design and make a product that incorporates a new material or technology. They might also design and prototype a product for a specific market or user group.

By the end of Level 2, students will have a strong understanding of the principles of industrial design. They will be able to use their skills to design and make products that are both functional and aesthetically pleasing.

What sorts of things will I do?

In this subject you will develop skills in ideation, woodwork and joinery, laser cutting, plastic forming, drawing, modelling, graphic application and programmes such as Onshape and Adobe Illustrator.
The course focuses on the following:

- ALL aspects of Technological Practice including research, concept generation and evaluation of practice.
- Workshop practices, CNC/Digital design and manufacturing
- This an Achievement Standards based course. (university entrance)

What standards can I enter?

NCEA Level	Standard Number	Name of standard	Version number	Credits	Assessment	Approximate assessment date
2	AS 91356	Undertake effective development to make and trial a **prototype**	6	Workbook Internal (NZQA	Term 2	2
2	AS 91344	Implement advanced **procedures** using resistant materials to make a specified product with special features.	6	Workbook Internal (NZQA)	End of term 2	2
2	US 17593	Apply **safe** work practices in the workplace	4	Workbook Internal (NZQA)	Term 4	2
2	AS 91338	Produce working **drawings** to communicate technical details of a design	4	Portfolio External (NZQA)	End of term 4	2

Frequently asked questions

Where does this course lead?
This course can lead to University courses related to product design and engineering.

Do we just make things?
No, this course is about designing and then making technology outcomes in a range of materials ie. wood, acrylic etc. You will need to design your product before you can make it and this will need to be completed before any making can occur. During making you will be testing and trialling materials and techniques to analyse what is best for your project and also getting stakeholder feedback. This is part of the design process and makes up a written component of the project

What equipment is required?
All necessary equipment will be provided. You will need to make sure you are wearing closed toe shoes when we are in the workshops

What products will we be making?
Light box, welding project, and a Bluetooth speaker.

Can I take home things I make?
Yes, anything you make you get to take home and enjoy

Subject requirements for assessment authenticity

Students have to sign the external submission sheet/envelope authenticity statement.