

Mechanical Engineering



Head to our website tradesacademy.ac.nz to read the personal accounts of our past graduates and students.

CELEBRATING
10 years
OF TOP OF THE SOUTH
TRADES ACADEMY!

“The facilities here at NMIT are really big, with heaps of equipment.”
TRADES ACADEMY STUDENT

TRAINING PATHWAYS

- TRADES ACADEMY TRAINING**
- Industry Employment/ Apprenticeships and ITO Training
 - Tertiary Pre-Employment Training at NMIT L3 in Engineering
 - University Studies:
 - Engineering Degrees in Mechanical, Civil, Structural, Design
 - Metallurgist

EMPLOYMENT OPPORTUNITIES

- Business Owner
- Machinist and Toolmaker
- Marine Engineer
- Welder
- Refrigeration Engineer
- Sheet Metal Fabricator
- Heavy Fabrication Engineer
- CAD Operator
- Architect or Civil Drafter
- Civil Engineer
- Mechanical Engineer
- Hydraulics Engineer
- Structural Steel Engineer
- Heating, Ventilation, Air Conditioning
- Maintenance and Diagnostics Engineer

If you're into making and fixing things and like working with your hands, then chances are you'll make a really good mechanical engineer.

This challenging programme will see you working in NMIT's Mechanical Engineering workshops learning how to machine, weld and fabricate with metal.

During the year you'll design, build and race a grass kart with your team mates. Training is pretty much hands-on, so be prepared to get stuck in.

We are offering a new separate programme called The **EVelocity** programme which promotes sustainability, electric vehicle updates and careers in engineering (mechanical, electrical, electronics, programming and CAD).

This programme is proposed as a **variation and in addition** to the already existing welding course. Although the same welding components (unit standards) will apply as in the current welding course, the focus of this course will be on challenging you to build an electric bike/scooter/cart which you will then use to compete with at the end of the year at the EVelocity competition.

- On completion of this course you will be able to:
- 1 EVelocity or Mechanical (Year 1)**
 - Demonstrate knowledge of workplace health and safety requirements on engineering worksites.
 - Demonstrate knowledge of safety on engineering worksites.
 - Demonstrate knowledge of MIG welding in the motor industry.
 - Perform basic fabrication operations under supervision.
 - Assemble mechanical components under supervision.
- OR
- 2 Mechanical (Year 2)**
 - Produce simple engineering component drawings using CAD software.
 - Produce components by performing basic engineering turning operations.

Some unit standards may change. Final information on the standards specific to your course will be available prior to starting your programme.

► For more information on what you will learn and the credits you can achieve in this programme, go to the Trades Academy website and follow the course information links.

- NCEA: Level 2**
This programme offers two year levels
- Starts:** February 2022
- Time:** 9am to 2.30pm Fridays
- Location:** NMIT Nelson

Note: If circumstances change there could be a mix models of delivery e.g online, face to face one day per week or block options.



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