

# Mechanical Engineering



Head to our website [tradesacademy.ac.nz](http://tradesacademy.ac.nz) to read the personal accounts of our past graduates and students.

“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.

► 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.

### On completion of this course you will be able to:

- 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.
- 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.

 [office@tradesacademy.ac.nz](mailto:office@tradesacademy.ac.nz)  
[tradesacademy.ac.nz](http://tradesacademy.ac.nz)

-  **NCEA: Level 2**  
*This programme offers two year levels*
-  **Starts:** February 2021
-  **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.

