New Zealand Certificate in Mechanical Engineering Level 3

Want a career in welding, machining and fabrication? Kick start your mechanical engineering technician career with this one year certificate.

You will learn how to:

- Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks
- Apply basic trade related numeracy, literacy, and visualisation skills to perform engineering tasks
- Perform a defined range of engineering tasks according to instructions using relevant materials, tools, and equipment
- Set up and carry out a single process engineering job according to instructions
- Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken
- Take responsibility for the appropriate quality of your own engineering work and make corrections as required
- Participate and communicate effectively within an engineering team

Programme Specific Information

Graduates of this qualification will be able to work (under limited supervision) in an operator or trade assistant role in their area of specialisation, in the mechanical engineering, construction, mechanical building services, manufacturing, or fabrication industries.

Career Options: CNC Machine Operator, Mould and Core Maker, Furnace Operator, Machine Operator, Specialist Production Welder, Metal Worker/Fabricator, Ducting Fabricator, Pipe Fitter/Welder, Metal Polisher and Pattern Maker Trade Assistant.

Programme Information

Course Code	Course Title	Purpose
CME2.301	Health and Safety	This course introduces students to engineering health and safety requirements in engineering workshops which will allow them to be able to: identify and describe legislative rights and responsibilities for workplace health and safety; describe the systems approach to workplace health and safety; and explain how hazards are defined in the HSWA Act; Demonstrate knowledge of hazards, personal safety, and safety procedures and equipment on engineering worksites.
CME2.302	Mechanical - Fabrication A	This course introduces students to project-based learning. On completion of the project students will have the understanding and basic ability to: Work safely in an engineering workshop; Apply basic trade-related numeracy, literacy and visualisation skills to perform engineering tasks; Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment.

WITT reserves the rights to withdraw or adjust any of the programmes listed, alter start date or fee schedules, and make any other changes as it may deem desirable or necessary, without prior notice. All programmes are subject to a sufficient number of enrolments and completion of all approval and accreditation requirements.

CME3.303	Mechanical – Fabrication B	This course introduces students to project-based learning. On completion of the project students will have the ability to: Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks; Apply basic trade-related numeracy, literacy and visualisation skills to perform engineering tasks; Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment; Set up and carry out a single process engineering job according to instructions; Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken; Take responsibility for the appropriate quality of their own engineering work and make corrections as required; Participate and communicate effectively within an engineering team.
CME3.304	Mechanical – Fabrication C	This course introduces students to project based learning. On completion of the project students will have the ability to: Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks; Apply basic trade related numeracy, literacy and visualisation skills to perform engineering tasks; Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment; Set up and carry out a single process engineering job according to instructions; Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken; Take responsibility for the appropriate quality of their own engineering work and make corrections as required; Participate and communicate effectively within an engineering team.

Programme Fees and Additional Expenses

Programme Fees

Domestic	$6,889.00 (approx)	International $POA

Additional Expenses

Item	**Expected Approximate Cost**
Overalls (Cotton)	$60-$150
Safety Boots (Steel capped)	$100-$250
Safety Glasses	$10
Scientific Calculator	$15-$35
Riggers Gloves or	$15-$30
Tig Welding Gloves	$15-$30

WITT reserves the rights to withdraw or adjust any of the programmes listed, alter start date or fee schedules, and make any other changes as it may deem desirable or necessary, without prior notice. All programmes are subject to a sufficient number of enrolments and completion of all approval and accreditation requirements.