



MEM50212 Diploma of Engineering - Technical

National ID: MEM50212 | State ID: J367

About this course

Are you ready for a technically advanced engineering career?

When you complete the Diploma of Engineering - Technical you'll have analytical skills in mechanical engineering, as an engineering technician, detailed drafter, or maintenance technician.

You will gain the advanced skills and knowledge to carry out mechanical engineering drafting and design, analytical work involving manufacturing and fabrication techniques, understand the application of engineering principles, systems, and processes, draw and design mechanical equipment, maintain mechanical systems, and workplace health and safety.

Completion of the Diploma of Engineering - Technical opens up a range of further study options, and may produce advanced standing towards a university degree.

This Qualification is also available as a Traineeship. To study as a Trainee, you must be employed in a training contract by an appropriate organisation. Please see the Apprenticeships/Traineeships section for more information.

Overview

Semester 1, 2019

Munster Campus - Full Time-Classroom



Duration: **1 Year**



When: **Semester 1, 2019**



How: **Full Time**

Units

Core

Unit Title	National ID
Organise and communicate information	MEM16006A
Interact with computing technology	MEM16008A
Select common engineering materials	MEM30007A
Apply mathematical techniques in a manufacturing engineering or related environment	MEM30012A
Participate in environmentally sustainable work practices	MSAENV272B

Elective

Unit Title	National ID
Integrate mechanical fundamentals into an engineering task	MEM14089A
Manage self in the engineering environment	MEM22002A
Coordinate engineering projects	MEM22013A
Apply technical mathematics	MEM23004A

Unit Title	National ID
Apply fluid and thermodynamics principles in engineering	MEM23006A
Select and test mechanical engineering materials	MEM23063A
Apply engineering mechanics principles	MEM23109A
Select electrical equipment and components for engineering applications	MEM23111A
Calculate force systems within simple beam structures	MEM30005A
Calculate stresses in simple structures	MEM30006A
Contribute to the design of basic mechanical systems	MEM30009A
Set up basic pneumatic circuits	MEM30011A
Operate computer-aided design (CAD) system to produce basic drawing elements	MEM30031A
Produce basic engineering drawings	MEM30032A
Use computer-aided design (CAD) to create and display 3-D models	MEM30033A

Entrance requirements

School Leaver	Non-School Leaver	AQF
Completion of WACE General or ATAR (Minimum C Grades) or equivalent	Completion of WACE General or ATAR or equivalent (minimum C Grades)	Certificate III

Job opportunities

Mechanical Engineering is the most broadly based branch of engineering. Mechanical Engineers oversee all aspects of the design, development, installation, operation and maintenance of machinery. Examples of areas in which Mechanical Engineers work are: - Mining and Resource industries - Power generation - Manufacturing - Transportation - Refrigeration and Air conditioning - Technical sales and Consulting - Ship design and construction - Aviation and Aerospace

For information about jobs and pathways, please see <http://joboutlook.gov.au/>

Further study opportunities:

- MEM60112 Advanced Diploma of Engineering, State ID J368

Fees and charges

Indicative fees and charges

[2019 general admission fees list](#)

[2019 apprenticeship/traineeship fees list](#)

Fees and charges published on our website are indicative. Your fees will depend on your eligibility for government funding or a concession rate, and the units you choose to study or seek to be recognised under Recognition of Prior Learning (RPL). Our Indicative fees lists show fees that are:

- Based on the full possible study plan of units, including the recommended electives
- Based on full time study in 2019
- Charged at the government funded rate for over 18 years of age students
- Based on unit electives designed to meet localised industry demand for skills
- Made up of course fees and resource fees, or RPL fees. Course fees are the cost of your tuition, while resource fees pay for consumables provided to you to aid your study (such as printing and paper). You may also be required to purchase text books or equipment that are not part of our tuition or resource fees.

Fees may vary between students and between educational providers. Other charges may apply.

Visit our [Fees and payment options](#) page for more information.

Call 1800 001 001 to get a more accurate fee indication based on your eligibility and study plan before applying.

VET Student Loans

Selected courses are VET Student Loan eligible courses.

A VET Student Loan creates a debt that must be repaid to the Commonwealth and is only available to students who are eligible.

To find out if you are eligible or to see the list of eligible courses visit our [Student Loans](#) page.

International students

Selected courses are available to International students for full time study only.

Fees, charges, available locations, applications and enrolment procedures for International students are different to those for students who have Australian permanent residency.

For more information or to find a course visit the [TAFE International WA](#) website.

Apprenticeships and traineeships

Fees for apprenticeships and traineeships are charged at a rate per nominal hour of study.

This means that your fees will vary depending on the units you study as part of your training plan.

Apprentices and trainees are liable to pay for their own fees but some industrial agreements (awards) dictate that employers are required to reimburse their apprentice upon receipt of satisfactory progress. An employer may also opt to pay on behalf of the apprentice or trainee.

For more information visit our [Apprenticeships and traineeships](#) page.

Recognition of Prior Learning

Recognition of Prior Learning (RPL) enrolments are charged at \$3.25 per nominal hour of study.

No concession fees apply to RPL enrolments. Refer to the institutional or apprenticeship/traineeship fee lists for an indicative RPL course fee.

Please note, fees are subject to change.