



MEM50212 Diploma of Engineering - Technical

National ID: MEM50212 | State ID: J367

About this course

Are you ready for a technically advanced engineering career?

Advance your career with a technical engineering qualification. The Diploma of Engineering - Technical covers a diverse range of theoretical and technical skills for pursuing a career in the mechanical, mechatronic, manufacturing and maintenance engineering fields. This course emphasises the transfer of theoretical concepts to practical real-life applications to ensure our students graduate with job-ready skills.

Gain these skills:

- engineering **drafting** and **design**
- **analytical** work involving **manufacturing** and **fabrication techniques**
- application of **engineering principles, systems** and **processes**
- **drawing** and **designing mechanical equipment**
- maintain **mechanical systems**
- workplace health and safety

Completion of this course opens up a range of further study options, and may also produce advanced standing towards a relevant university degree.

Overview

Semester 1, 2020

Munster - Full Time-Classroom



Duration: **1 Year**



When: **Semester 1, 2020**



How: **Full Time**

Units

Core

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

Elective

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

National ID	Unit Title
MEM23004A	Apply technical mathematics
MEM23006A	Apply fluid and thermodynamics principles in engineering
MEM23063A	Select and test mechanical engineering materials
MEM23109A	Apply engineering mechanics principles
MEM23111A	Select electrical equipment and components for engineering applications
MEM30005A	Calculate force systems within simple beam structures
MEM30006A	Calculate stresses in simple structures
MEM30009A	Contribute to the design of basic mechanical systems
MEM30011A	Set up basic pneumatic circuits
MEM30031A	Operate computer-aided design (CAD) system to produce basic drawing elements
MEM30032A	Produce basic engineering drawings
MEM30033A	Use computer-aided design (CAD) to create and display 3-D models

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

Study pathway

 [Certificate III in Engineering - Technical](#)

 [Diploma of Engineering - Technical](#)



[Advanced Diploma of Engineering](#)

Become a specialist in your field with university study

This course has a university study pathway as at **28 October 2019**.

Edith Cowan University - Bachelor of Engineering (Mechanical) (Y45) - Up to 120 credits

The information about university credit points and tuition costs provides a general guide only. To check the current credit arrangements and to find more information about how credits work at the listed university of your choice, visit TAFE International WA's [University Pathway Finder](#).

Job opportunities



[Engineering Draftsperson/Technician Mechanical Engineer Assistant | Automation](#)

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, and Aviation and Aerospace.

Please note this list should be used as a guide only as job titles and qualification requirements may vary between organisations.

SM TAFE actively promotes the employment availability of course graduates to key industry partners and organisations. We also seek expressions of interest from organisations for the placement of our students into work experience. We endeavour to assist students into a career pathway, but please be aware that neither employment nor work experience placement is guaranteed by us.

To access free career planning and job search assistance, visit the [Jobs and Skills Centres](#) page.

Fees and charges

Indicative fees and charges

[2020 general admission fees list](#)

[2020 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.