



## DIPLOMA OF ENGINEERING – TECHNICAL MEM50212

CRICOS COURSE CODE: 098177J

### COURSE DESCRIPTION

This qualification provides you with the practical skills and knowledge to draw and design the necessary specifications an engineering workshop needs to manufacture goods. This course develops on your existing knowledge in how to produce different engineering graphic designs, select and apply mathematical techniques in a manufacturing, engineering or related environment and select common engineering materials.

<b>Intake Dates</b>	17 February 2020 (Completion 28 July 2021) 20 July 2020 (Completion 2 February 2022) 1 February 2021 (Completion 3 August 2022)
<b>Course Duration</b>	74 weeks, including 58 tuition (teaching) weeks and 16 holiday weeks
<b>Modes of Delivery</b>	This course will be delivered face-to-face in the classroom 20 hours per week.
<b>Assessment Methods</b>	Written, oral and practical
<b>Work Based Training or Arrangement with another Provider in the Delivery of the Course</b>	Outsource has no agreements with any other party in the delivery of this course to international students. There is no work based training associated with this course.
<b>Delivery Location</b>	Brisbane Technology Park Suite 1, Lower West Wing 1 Clunies Ross Court Eight Mile Plains QLD 4113 AUSTRALIA
<b>Recognition of Prior Learning (RPL) / Credit Transfer</b>	AUD\$500 for RPL and Credit Transfer application fee (non-refundable). This fee is in addition to the course tuition fees. Please contact us for further information.
<b>Tuition Fees</b>	AUD\$21,000* AUD\$250 enrolment application fee (non-refundable) is required upfront and will contribute towards the total course cost. Tuition fees include AUD\$750 material fee, IT equipment & software.
<b>Non-Tuition Fees</b>	<ul style="list-style-type: none"><li>Overseas Student Health Cover (if organised by Outsource on behalf of the student). The cost of the cover will depend on who the cover is for (e.g. single, family, single parent) and your visa start and end dates. A quote can be provided in the International Student Contract.</li><li>Airport Pick-up (if organised by Outsource on behalf of the student). The cost will depend on the pick-up and drop-off locations. A quote can be provided in the International Student Contract.</li><li>Students are responsible for associated sundry expenses including, but not limited to, stationery and other personal expenses during the course of study.</li></ul>
<b>Additional Fees</b>	Please refer to the ' <b>Fee Schedule</b> ' located on our website for additional fees that may apply during enrolment.

\*Fees are subject to change without notice.

### UNIVERSITY ARTICULATION PATHWAYS

\* Credit transfer recognition will be based on a case to case basis depending on the qualification and unit selection.





## COURSE CONTENT

### Core Units

- 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 Units

#### Group A – general

- MEM12024A – Perform computations
- MEM30008A – Apply basic economic and ergonomic concepts to evaluate engineering applications
- MEM30009A – Contribute to the design of basic mechanical systems
- 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

#### Group B – specialist

- MEM09155A – Prepare mechanical models for computer-aided engineering (CAE)
- MEM09157A – Perform mechanical engineering design drafting
- MEM12025A – Use graphical techniques and perform simple statistical computations
- MEM14085A – Apply mechanical engineering analysis techniques
- MEM23003A – Operate and program computers and/or controllers in engineering situations
- MEM23004A – Apply technical mathematics
- MEM23063A – Select and test mechanical engineering materials
- MEM23109A – Apply engineering mechanic principles
- MEM23111A – Select electrical equipment and components for engineering applications

## PACKAGING RULES

### The minimum requirements for achievement of the MEM50212 Diploma of Engineering – Technical are:

- Completion of the five (5) core units of competency, and
- Fifteen (15) elective units, to bring the total number of units to twenty (20)

### Elective units must be selected as follows:

- Up to eight (8) general elective units from the list in Group A
- At least seven (7) specialist elective units from Group B, to bring the total number of elective units to fifteen (15)

Note that when selecting elective units any prerequisite units must also be completed. Note that prerequisites can only count towards the number of electives required if they are listed in the groups of electives (refer to units for details).

Three (3) appropriate Group B electives may be chosen from other endorsed Training Packages and accredited courses where those units are available for inclusion at Diploma level.



## ENTRY REQUIREMENTS

- English requirement: IELTS- 5.5, TOEFL IBT 46-59, PTE 43-50
- Academic requirements: Completion of Year 12 or equivalent. Non-school-leavers must have relevant work experience or qualification that indicates likely success of course completion.
- Experience: An appropriate candidate for entry into the Diploma of Engineering - Technical MEM50212, must have a minimum of two (2) years' experience working in engineering within the following sectors; Manufacturing, Food Processing, Mining Services, General Engineering or Energy Generation.

*\*Note: Every application is assessed individually.*

## JOB OPPORTUNITIES

Possible job titles relevant to this qualification include:

- Engineering Project Officer
- Engineering Development Officer
- Engineering Estimator
- Engineering Technical Officer
- CAD Drafter
- Control Systems Engineer
- Mechanical Engineer

## OVERSEAS STUDENT SUPPORT

- Academic/English support services
- Cadetships (*\*condition apply*)
- Availability of student resources outside of classroom hours
- Learning support services
- Payment options
- Employment support
- Student support
- Accommodation services
- Student health care

## GENERAL DESCRIPTION OF FACILITIES AND RESOURCES

Outsource Institute's Head Office and campus is located at Brisbane Technology Park (BTP) in Eight Mile Plains, Brisbane, Queensland, Australia. Our training facilities are equipped with whiteboards and PowerPoint facilities. Students will have access to textbooks, computers and stationery to assist with their studies.

## FURTHER INFORMATION

Please refer to the 'International Student Handbook' and website ([www.outsourceinstitute.com.au](http://www.outsourceinstitute.com.au)) for further information on policies and procedures, a description of the ESOS Framework, costs of living in Australia, accommodation options and schooling obligations for school-aged children.

