



Qualification:

This course has been designed for International Students studying in Australia and will provide successful students with a Nationally Recognised Qualification of Diploma of Engineering - Advanced Trade (MEM50105).

Pathways:

Further training pathways from this qualification include transition into technical work through completion of the MEM60105 Advanced Diploma of Engineering or undertaking other relevant qualifications.

Course Duration:

This course has been designed to be delivered over 108 weeks with 80 weeks of scheduled classes and 28 weeks holidays.

Contact Hours:

Classes are held for 20 student contact hours per week which equates to 1590 student contact hours. This may be achieved with a schedule such as 3 days per week (2 days of 8 hours, and 1 day of 4 hours per week). While the timetable may vary it will always maintain 20 student contact hours per week.

Tuition Fee:

Costs for this program are as follows:

Tuition Fee:	\$24,500
Materials Fee:	\$500
Total Fees payable:	\$25,000

(Above tuition fees apply for admission by direct entry. Credit for relevant units of competency achieved should be granted towards this qualification for those who have completed MEM40105 Certificate IV in Engineering, MEM30205 Certificate III in Engineering – Mechanical Trade, MEM30305 Certificate III in Engineering – Fabrication Trade, or other relevant qualifications)

Who can undertake the training?

Students are required to meet the following entry requirements:

- Applicant must be 18 years of age or older
- An IELTS score of 5.5 or PTE Academic Score of 45.4 (or equivalent English Language Testing Score) is required for International students entering into this program*
- Applicants might be asked to take an AIE English Placement Test
- Students must successfully complete a LLN test to confirm the ability to effectively undertake the course
- This program has been designed to be delivered through classroom-based delivery and students must have the ability to attend the scheduled sessions as per the timetable and allocate some self-study time.
- Students will be required to have access to a computer (or laptop) with internet connection for self-study purposes.

*Note: Exception on English Requirement for international students

Applicant who is a citizen and holds a passport from UK, USA, Canada (excluding French province), NZ or Republic of Ireland, will not be required to present any English evidence as part of application with AIE.

How is the course trained and assessed?

This program is to be delivered in a classroom based environment with access to a fully equipped engineering workshop.

All theory and practical based delivery and assessment will occur within the designated classrooms and engineering workshop of the RTO through structured training sessions from a qualified Trainer / Assessor employed by the RTO. At these training sessions a qualified Trainer/ Assessor will provide the required skills and knowledge as per the unit content and will ensure the learning is imparted.

The course also involves students completing some reading and written work outside the scheduled classroom delivery time.

The assessment process will include the gathering of evidence to demonstrate the student's competence. The assessments include theory and practical tasks and will be clearly documented in the assessment documents. Assessments will include tasks such as written questions, practical demonstrations, case studies and assignments.

RTO ID : 45356

CRICOS CODE : 03685G

CRICOS COURSE CODE: 097155A

How do I enrol?

Your part in the enrolment process is triggered by you completing an Application Form to study with Australian Institute of Engineering. Which Can be Download from our Website.

To apply and enrol in this course with Australian Institute of Engineering you will be required to complete the following steps:

1. Read and understand the information contained in this course brochure and the International Student Information Handbook.
2. Complete and sign the Application Form to declare that you understand all of the information provided and confirm your interest in the selected course. This will include providing a range of information and documents to support your application.
3. Return the Application Form to Australian Institute of Engineering.
4. You will then receive a Letter of Offer and Written Agreement confirming your enrolment details which must be signed and returned to confirm your enrolment with Australian Institute of Engineering.
5. Undertake a Language, Literacy and Numeracy test at Australian Institute of Engineering prior to your commencement of the course.

Course Structure:

Diploma of Engineering - Advanced Trade (MEM50105) covers the skills and knowledge required for employment as an Advanced Engineering Tradesperson - Level II within the metal, engineering, manufacturing and associated industries or at equivalent levels in other industries where Engineering Tradespersons work.

Units

Students need to complete Fifty Three (52) units of competency, consisting of:

- 18 Core units
- 34 Elective units

Core Units

Unit Code	Unit Name
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM12025A	Use graphical techniques and perform simple statistical computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM16009A	Research and analyse engineering information
MEM16011A	Communicate with individuals and small groups
MEM16012A	Interpret technical specifications and manuals
MEM16014A	Report technical information
MEM17003A	Assist in the provision of on the job training
MEM30012A	Apply mathematical techniques in a manufacturing, engineering or related
MSAENV272B	Participate in environmentally sustainable work practices

Elective Units

Unit Code	Unit Name
MEM11011B	Undertake manual handling
MEM05051A	Select welding processes
MEM05052A	Apply safe welding practices
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM09002B	Interpret technical drawing
MEM05005B*	Carry out mechanical cutting*
MEM05007C	Perform manual heating and thermal cutting
MEM05004C	Perform routine oxy acetylene welding
MEM05006C	Perform brazing and/or silver soldering
MEM05050B	Perform routine gas metal arc welding
MEM05017D*	Weld using gas metal arc welding process*
MEM05047B*	Weld using flux core arc welding process*
MEM05049B	Perform routine gas tungsten arc welding
MEM05019D*	Weld using gas tungsten arc welding process*
MEM05012C	Perform routine manual metal arc welding
MEM05015D*	Weld using manual metal arc welding process*
MEM05013C	Perform manual production welding
MEM12007D*	Mark off/out structural fabrications and shapes*
MEM05037C*	Perform geometric development*
MEM05010C*	Apply fabrication, forming and shaping techniques*
MEM05011D*	Assemble fabricated components*
MEM11016B*	Order materials*
MEM07005C*	Perform general machining*
MEM05016C*	Perform advanced welding using manual metal arc welding process*
MEM05018C*	Perform advanced welding using gas metal arc welding process*
MEM05020C*	Perform advanced welding using gas tungsten arc welding process*
MEM05048B*	Perform advanced welding using flux core arc welding process*
MEM12003B*	Perform precision mechanical measurement*
MEM18011C	Shut down and isolate machines/equipment
MEM09009C*	Create 2D drawings using computer aided design system
MEM09010C*	Create 3D models using computer aided design system Write reports*
MEM16010A*	Create 3D models using computer aided design system Write reports*
MEM16001B	Give formal presentations and take part in meetings

Please Note:

*The above units have listed pre-requisite units that are listed within the Training Package and the AIE Engineering Qualifications Overview. All elective units are included and accounted for within the unit selection and order of delivery.