

YOUR
ENGINEERING

CAREER

PATH

STARTS

RIGHT

HERE!



**AUSTRALIAN
INSTITUTE**
of Advanced Studies

**AUSTRALIAN
INSTITUTE**
of Advanced Studies



We Also Offer the Following Courses

Diploma of Business

Certificate III in Design Fundamentals

Diploma of Screen & Media

Diploma of Graphic Design

Diploma of Engineering

Certificate IV in Bookkeeping

Justice of the Peace (Qualified)

For Course Details and Enrolment
Information Please Contact Our Friendly
Staff for Assistance.

Phone - 07 3343 8073

E-mail - info@aus-ias.edu.au

Web - www.aus-ias.edu.au

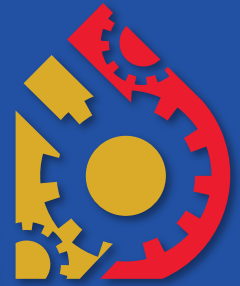
"L" Block - Brisbane TAFE Mt Gravatt Campus

1030 Cavendish Road

Mount Gravatt East QLD 4122

Po Box 5060 Mount Gravatt East QLD 4122

**AUSTRALIAN
INSTITUTE**
of Advanced Studies



ENGINEERING

MAKING YOUR FUTURE A REALITY

MSA30208 Certificate III in
Manufacturing Technology - CAD/Drafting

MEM60112 Advanced Diploma of Engineering

www.aus-ias.edu.au

ENGINEERING

Certificate III in Manufacturing Technology CAD/Drafting

About the Course

This course is designed to give you knowledge and skills in Computer Aided Drafting and Mechanical Engineering to place you as a drafter in an engineering environment. This course is offered both full-time and part-time.

Note: This is a para-professional engineering course, leading to a technical position within engineering companies.

At AIAS we offer the CAD/Drafting stream of the qualification however, students can elect to complete the units offered by us from other streams of study.

Pathways & Further Study

Ten (10) of the units in this course also count towards the Diploma and Advanced Diploma of Engineering with full credit to corresponding MEM competency codes.

Course Requirements

To be awarded a Certificate III in Manufacturing Technology - Cad/Drafting, competency must be achieved in eleven (11) units of competency.

Core Units

- MEM30012A Apply mathematical techniques in a manufacturing, engineering or related environment
- MSS402051A Apply quality standards
- MSAENV272B Participate in environmental sustainable work practices

Electives

- MEM12024A Perform computations
- MEM16006A Organise and communicate information
- MEM16008A Interact with computer technology
- MEM30031A Operate computer aided design (CAD) systems to produce basic drawing elements
- MEM30032A Produce basic engineering drawings
- MEM30033A Use computer aided design (CAD) to create and display 3-D models
- MEM30005A Calculate force systems within simple beam structures
- MEM30006A Calculate stresses in simple structures

Advanced Diploma of Engineering

About the Course

The Advanced Diploma of Engineering is a course that is well-recognised by industry in Australia. There is a demand for Engineers at this level which is commonly referred to as para-professional engineers. The full-time course is facilitated face to face over 2 years by our highly skilled lectures ensuring that students have the opportunity to achieve the best possible outcomes from their studies giving them the leading edge to gain employment within the industry. In addition to this AusIAS offers additional tutorial time for those who would like additional assistance with their studies.

The subjects in the Advanced Diploma of Engineering have been carefully selected to ensure that the skills and knowledge being learned is current and relevant to the demands of industry.

Pathways & Further Study

Successful completion of this course can assist in gaining industry positions such as Design Draftsman, Engineering Technician, Estimator and other technical roles. Many students use this course to obtain jobs within industry before continuing study for a Bachelor of Engineering at some of Australia's top Universities to advance their careers options.

The Advanced Diploma of Engineering gives students a one year credit towards the Bachelor of Engineering Degree at most Universities. We have found that students entering the Bachelor course after having studied the Advanced Diploma of Engineering are very successful at the University.

Course Requirements

To be awarded an Advanced Diploma of Engineering, competency must be achieved in thirty (30) units of competency.

Core Units

- MEM16006A Organise and communicate information
- MEM16008A Interact with computing technology
- MEM22001A Perform engineering activities
- MEM22002A Manage self in the engineering environment
- MEM30007A Select common engineering materials
- MEM30012A Apply mathematical techniques in a manufacturing, engineering or related environment
- MSAENV272B Participate in environmental sustainable work practices

Electives

- MEM09002B Interpret technical drawing
- MEM12024A Perform computations
- MEM30005A Calculate force systems within simple beam structures
- MEM30006A Calculate stresses in simple structures
- MEM30009A Contribute to the design of a basic mechanical system
- MEM30031A Operate computer aided design (CAD) systems to produce basic drawing elements
- MEM30032A Produce basic engineering drawings
- MEM30033A Use computer aided design to create and display 3-D models
- MEM09155A Prepare mechanical models for computer aided engineering
- MEM09157A Perform mechanical engineering design drafting
- MEM09204A Perform basic engineering detail drawing
- MEM12025A Use graphical techniques and perform simple statistical computations
- MEM22007A Manage environmental effects of engineering activities
- MEM22013A Coordinate engineering projects
- MEM23003A Operate and program computers and/or controllers in engineering situations
- MEM23004A Apply technical mathematics
- MEM23006A Apply fluid and thermodynamic principles in engineering
- MEM23007A Apply calculus to engineering tasks
- MEM23109A Apply mechanical engineering principles
- MEM23120A Select mechanical machine & equipment components
- MEM23123A Evaluate manufacturing processes
- MEM23138A Evaluate suitability of materials for engineering related applications
- MEM30029A Use workshop equipment and processes to complete an engineering project.

*'Don't just do a course...
...Get an education!'*

MAKE YOUR FUTURE A REALITY!

FOR MORE INFORMATION CALL - 07 3343 8073