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ENGINEERING
CAREER
PATH
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**AUSTRALIAN
INSTITUTE**
of Advanced Studies



We Also Offer the Following Courses

- CUA51015 Diploma of Screen & Media
- CUA31015 Certificate III in Screen & Media
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- CUA30715 Certificate III in Design Fundamentals
- MEM60112 Advanced Diploma of Engineering
- MSA30208 Certificate III in Manufacturing Technology
- 30942 QLD Justice of the Peace (Qualified)

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

Phone +617 3343 8073

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CRICOS Code: 03469E
RTO No. 40730

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ENGINEERING

MSA30208 Certificate III in
Manufacturing Technology - CAD/Drafting
MEM60112 Advanced Diploma of Engineering

ENGINEERING

Certificate III in Manufacturing Technology CAD/Drafting

About the Course

On completion of this course you have the opportunity to be a part of the world of engineering. As a CAD draftsman you could be 3D modelling and detailing car parts, airplane components, architectural designs, landscapes, bridges and the engineering marvels of the future. This course is aimed at providing aspiring para-professional engineers with the skills and knowledge to make a valuable contribution.

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 environmentally 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
- MEM09002B Interpret technical drawings
- MEM30006A Calculate stresses in simple structures

Advanced Diploma of Engineering

CRICOS Course: 089996D

About the Course

On completion of this course you could be a part of the design team for the next supersonic aircraft or energy efficient transport systems or developing new manufacturing equipment. This course equips you with the skills of an Engineering Technician. You will learn how to use design calculations, materials, manufacturing processes, 3D modelling and details drafting to produce a diverse range of technologies for today and tomorrow.

This two year full time (or part time) course is designed to give you a broad understanding of the concepts and processes to make you a valuable member of an engineering team as an Engineering Technician.

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 advancing their career options by studying for a Bachelor of Engineering degree at some of Australia's top Universities.

The Advanced Diploma of Engineering gives students a one year credit towards the Bachelor of Engineering degree at most Universities.

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 environmentally 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
- MEM23063A Select and test mechanical engineering materials
- 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
- MEM14087A Apply manufactured product design techniques
- 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
- MEM14089A Integrate mechanical fundamentals in an engineering task
- MEM23109A Apply mechanical engineering principles
- MEM23120A Select mechanical machine and equipment components
- MEM23123A Evaluate manufacturing processes
- CPCCSV5003A Produce working drawings for residential buildings
- PMBTECH505B Choose polymer materials for an application

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

*The course unit selection may change without notice.

MAKE YOUR FUTURE A REALITY!

FOR MORE INFORMATION CALL +617 3343 8073