



Australian Institute
of Advanced Studies



MEM40412 - Certificate IV in Engineering Drafting

Get technical at the

AIAS School of Engineering

All facets of modern society are affected by **the work of engineers**, from satellites, aircraft, drones, 3D printing, mobile technology and renewable energy right down to Polaroid glasses, Velcro and the common clothes peg. Engineers will be vital in the fight to clean up polluted water supplies and develop strategies to deal with climate change.



MEM40412

Certificate IV in Engineering Drafting



On completion of this course you may be a part of the drafting / 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 Drafts person. You will learn how to use 2D CAD to create engineering drawings, 3D modelling produce detailed assembly models of a diverse range of technologies for today and tomorrow in various engineering disciplines including; medical, civil, structural, manufacturing, electrical etc.

This one 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 Drafts person.



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 Advanced Diploma of Engineering.

Course Requirements

Fifteen (15) of the units from MEM40412 count towards the Advanced Diploma of Engineering with full credit to corresponding MEM competency codes. To be awarded the Certificate IV in Engineering Drafting, competency must be achieved in Fifteen (15) units of competency.

Course Overview



Where can I study?

BRISBANE CAMPUS
MOUNT GRAVATT

24 MAX CLASS SIZE



Course start dates

FEBRUARY

JULY



Commitment

FULL TIME

20HRS – 3DAYS P/W

12 MONTHS

Programs learned:



Autodesk Inventor (Advanced),
Autocad

Core Units

MEM16006A ORGANISE AND COMMUNICATE INFORMATION

MEM16008A INTERACT WITH COMPUTING TECHNOLOGY

MEM30012A APPLY MATHEMATICAL TECHNIQUES IN A MANUFACTURING, ENGINEERING OR RELATED ENVIRONMENT

MSAENV272B PARTICIPATE IN ENVIRONMENTALLY SUSTAINABLE WORK PRACTICES

Elective Units

MEM09002B INTERPRET TECHNICAL DRAWINGS

MEM09204A PRODUCE BASIC ENGINEERING DETAIL DRAWINGS

MEM09210A CREATE 3D MODELS USING COMPUTER AIDED DESIGN (CAD) SYSTEM

MEM09221A CREATE 3D MODEL ASSEMBLIES USING COMPUTER AIDED DESIGN (CAD) SYSTEM

MEM12023A PERFORM ENGINEERING MEASUREMENTS

MEM30006A CALCULATE STRESSES IN SIMPLE STRUCTURES

MEM30007A SELECT COMMON ENGINEERING MATERIALS

MEM12024A PERFORM COMPUTATIONS

MEM30031A OPERATE COMPUTER-AIDED DESIGN (CAD) SYSTEM TO PRODUCE BASIC DRAWING ELEMENTS

MEM30032A PRODUCE BASIC ENGINEERING DRAWINGS

MEM30033A USE COMPUTER-AIDED DESIGN (CAD) SYSTEM TO CREATE AND DISPLAY 3-D MODELS



At the AIAS School of Engineering, you can study this fantastic course:

 **MSA30208 Certificate III in Manufacturing Technology**

 **MEM40412 Certificate IV in Engineering Drafting**

 **MEM50212 Diploma of Engineering - Technical**

 **MEM60112 Advanced Diploma of Engineering**

To learn more, email info@aias.edu.au
or call **+61 7 3343 8073** and you can visit
us online at www.aias.edu.au