

Advanced Diploma of Engineering Technology

CRICOS CODE 063245B



Realise your dream – study in Australia and become a qualified engineer!

- Develop technical and managerial competency for a career in private or public sector engineering.
- Study with local and international students in small classes.
- On-going intakes with no application fees.
- Open up your options – pathway to Deakin University's Bachelor of Engineering.
** 12 units credit equivalent to one and a half years of study.*

Advanced Diploma of Engineering Technology

Bachelor of Mechanical Engineering

- Manufacturing planner
- Project planner
- Supervisor
- Technical support and sales

Advanced Diploma of Engineering Technology

Duration: Two years full time. Can be completed in one and a half years.

Intakes: Ongoing

Campus: East Geelong

The Gordon's engineering courses will equip you with comprehensive skills and knowledge to work in a range of roles in various trade industries.

Applicable to both the public and private sectors across all engineering streams and to small, medium and large enterprises, the Advanced Diploma of Engineering Technology provides a high level of training for support and technical staff in the engineering industry.

At the Advanced Diploma level the course consists of analysis, diagnosis and design across a broad range of technical or management functions.

Apply now!

Contact Gordon International international@gordontafe.edu.au



Units of Competency

There are a number of Units of Competency that form the Advanced Diploma of Engineering Technology . The current Units of Competency and hours are listed below. (NB. Accurate at the time of printing. Course units subject to change.)

Title	Approx. Hours		
Undertake Interactive Workplace Communication Perform		Set Up Advanced Manufacturing Systems (AMS)	60
Emergency First Aid	10	Design Advanced Manufacturing Systems (AMS)	60
Use Hand Tools	20	Manage Advanced Manufacturing Systems	60
Use Power Tools/Hand Held Operations	20	Set Up Manufacturing Processes for Engineering Applications	40
Develop an Individual Career Plan for the Engineering Industry	20	Design Tooling Jigs and Fixtures for Advanced Manufacturing	40
Perform Basic Machining Processes	40	Apply Computer Aided Manufacturing (CAM) Processes	40
Apply Basic Fabrication Techniques	40	Apply Computer Aided Manufacturing (CAM) 2D Programming	40
Apply Electrotechnology Principles in an Engineering Work Environment	20	Apply Computer Aided Manufacturing (CAM)	
Produce Basic Engineering Sketches and Drawings	20	Lathe Programming	40
Use Basic Engineering Concepts to Plan the Manufacture of Engineering Components	20	Program a 3D Milling Machine Centre	60
Handle Engineering Materials	20	Program 4th Axis Applications	60
Produce Basic Engineering Components and Products Using Fabrication and Machining	60	Create Advanced Programs for CNC Machine Centres	60
Perform Cutting, Grinding and Turning Operations	60	Apply Basic Principles of Materials Science to Engineering Applications	40
Form, Bend and Shape Engineering Materials	60	Apply Advanced Principles of Materials Science to Engineering Applications	60
Perform Basic Welding and Thermal Cutting Processes to Fabricate Engineering Structures	60	Plan for the Implementation of Mechanical Drive Systems	60
Design and Prototype Components and/or Small Structures Using Engineering Design Principles	60	Apply Fluid Mechanic Principles in Mechanical Engineering	80
Produce Drawings Manually	40	Set Up Fluid Power Controlled Engineering Systems	80
Manage Projects	60	Design Fluid Power Controlled Engineering Systems	60
Manage Operational Plan	60	Apply Hydraulic Principles in Engineering	60
Build Client Relationships	50	Apply Pneumatic Principles in Engineering	60
Apply Quality Management Techniques	40	Set Up Mechatronics Engineering Systems	60
Apply Communications Management Techniques	40	Interface and Program Mechatronics Engineering Systems	60
Manage Application of Project Integrative Processes	60	Perform Vibration Measurement And Control	60
Manage Project Communications	40	Design Mechanical Engineering Systems	60
Perform Engineering Measurements	30	Program, Operate and Select a Robotics System	60
Dismantle, Replace and Assemble Engineering Components	30	Plan and Manage a Robotics System	60
Apply Metallurgy Principles	40	Apply Thermodynamic Principles in Engineering	60
Set Up Basic Hydraulic Circuits	40	Design Mechanical Machines	80
Set Up Basic Pneumatic Circuits	40	Implement Site Investigation Procedures	60
Apply Mathematical Techniques in a Manufacturing Engineering or Related Environment	40	Apply Construction Principles to Civil Engineering Works	60
Use Workshop Machines for Basic Operations	20	Apply Principles of Materials to Civil Engineering Applications	60
Apply Mathematical Solutions to Engineering Problems	80	Apply Environmental Issues to Engineering Projects	40
Apply Statistical Methods for Quality Control and Reliability	40	Apply Principles of Mechanics to Engineering Structures	40
Apply Scientific Principles to Engineering Problems	40		
Apply Principles of Mechanics to Engineering Problems	40		
Apply Principles of Strength of Materials to Engineering Problems	40		
Apply Chemical Principles to Standard Engineering Problems	40		
Apply Calculus to Engineering Problems	40		
Use 2D Computer Aided Drafting Systems	80		
Use Advanced 2D and 3D Computer Aided Drafting Techniques	80		
Apply Computer Based Solid Modelling Techniques	80		
Annotate and Create Assemblies Using Solid Models	80		
Create and Modify Surfaces for Simple Consumer Products	80		
Use Extended Features of CAD	40		
Manage CAD Systems	40		
Manage CAD in a Business	80		
Plan, Implement and Apply Preventative Maintenance Procedures	80		
Establish and Manage Maintenance Procedures	80		
Select and Apply Lubrication Principles	40		
Select and Maintain Bearing and Rotary Shaft Assemblies	40		

Entrance Requirements

International applicants require:

- Successful completion of Year 12 or its equivalent; or
- Mature aged applicants over the age of 20 who have relevant work experience and
- IELTS score of 5.5 or its equivalent; or
- Gordon Institute of TAFE Upper Intermediate English Certificate; or
- Evidence that English is the language of instruction in previous studies.

Annual Tuition Fee: AUD\$10,000 per year

Annual Additional Equipment/Materials Fee (Approx.): AUD\$ 380

More Information on Courses

For information, please contact Gordon International on:

Ph: +61 3 5225 0920,

Fax: +61 3 5225 0502 or

Email: international@gordontafe.edu.au



CRICOS Provider No. 00011G