



# GIPPSLAND

## INSTITUTE OF TECHNOLOGY

MEM50222

MEM50222 DIPLOMA OF ENGINEERING - TECHNICAL



## MEM50222 Diploma of Engineering - Technical

CRICOS COURSE CODE: 119722M

### COURSE DESCRIPTION

This qualification defines the skills and knowledge required of an Engineering Technician within metal, engineering, manufacturing and associated industries.

The skills associated with this qualification are intended to apply to a wide range of technical engineering discipline areas including mechanical, mechatronics, manufacturing, maintenance, and heating ventilation air-conditioning, engineering drafting and refrigeration and air conditioning in manufacturing, engineering and related industries. The qualification provides the opportunity to develop theoretical knowledge and technical skills in either a specific discipline area or across a broad field of technical work and learning.

This qualification should not be used for VET in Schools unless the students are formally engaged in a traineeship in accordance with the Australian Apprenticeships policy.

In some jurisdictions, units in this qualification may relate to licensing or regulatory requirements. Licensing and regulatory information is included in the relevant units of competency. Local regulations should be checked.

### LICENSING/REGULATORY INFORMATION

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

### TARGET MARKET

The target market for this course is international students who:

- possess an appropriate visa that allows them to study at an Australian registered CRICOS provider.
- wish to undertake this course to access further study or employment opportunities.
- have successfully completed year 12 or secondary studies in their home country or in Australia.
- possess little or no vocational experience.
- are 18 years of age at course commencement.
- are comfortable undertaking learning and assessment activities via face-to-face classes and independent study
- can participate in learning and assessment activities for approximately 26 hours per week over 46 weeks term time.
- are physically fit to complete manual tasks such as: moving objects while applying manual handling techniques.



### COURSE STRUCTURE

Students are required to undertake a total of 20 units to complete this course. This comprises 5 core and 15 elective units.

#### CORE UNITS

MEM16006	Organise and communicate information
MEM16008	Interact with computing technology
MEM22002	Manage self in the engineering environment
MEM30012	Apply mathematical techniques in a manufacturing engineering or related environment
MSMENV272	Participate in environmentally sustainable work practices

#### ELECTIVE UNIT

MEM12024	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16012	Interpret technical specifications and manuals

MEM16014	Report technical information
MEM18001	Use hand tools
MEM09203	Measure and sketch site information
MEM09229	Read and interpret technical engineering drawings
MEM09202	Produce freehand sketches
MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM12023	Perform engineering measurements
MEM14006	Plan work activities
MEM16010	Write reports
MEM24022	Undertake penetrant tests
MEM13019	Undertake work health and safety activities in the workplace

**COURSE CURRENCY STATUS:** Current

#### **LOCATION**

Students will undertake in class assessments at the Gippsland Institute of Technology campus at 4/70 Main Street, Pakenham Victoria 3810, Factory 3, 7-9 Bormar Drive Pakenham, and 15-17 Racecourse Road North Melbourne VIC 3051.

#### **COURSE INTAKES**

Intakes throughout the year. Contact the Institute for details.

#### **QUALIFICATION**

Upon successful completion of all the units of competency in this course, students will be issued MEM50222 Diploma of Engineering – Technical testamur and a Record of results. If a student successfully completes some but not all of the units of competency in the course, they will be issued a Statement of attainment indicating the units they have successfully completed.

#### **DELIVERY METHODS**

The course is delivered via face-to-face training and independent study. The following techniques are employed during face-to-face delivery depending on the subject matter: trainer demonstrations, power point presentations, individual tasks, research, role plays, practical demonstrations, and group work. The context of the simulated workplace environment will be incorporated into delivery methodologies and student's complete tasks to workplace standards.

Students also undertake independent study and assessment activities in addition to scheduled classes. Examples of activities include undertaking homework set by trainers, research, reading, practicing applying knowledge and skills learnt in class, and preparing for and undertaking out of class assessment tasks.

#### **ASSESSMENT METHODS**

Assessment methods used include knowledge questions, reports, research activities and practical demonstrations/ observations. Methods also include simulated workplace environments whereby workplace environments and conditions are simulated and student student's complete tasks to workplace standards.

#### **COURSE DURATION**

This course is offered over two different durations:

52 weeks including holidays. This includes 46 weeks of term time and 6 weeks' holidays. Term time consists of two 12-week terms and two 11- week terms. Holiday periods include one 2-week Christmas holiday and one two week and two 1- week term holidays.

#### **COURSE HOURS AND COMMITMENT**

**52 WEEK COURSE DURATION:** During term time students attend scheduled face to face classes for 16 hours per week. Students will be required to undertake additional independent study and assessment activities completed outside of the classroom for

approximately 10 hours per week. Independent study is a mandatory part of the course. Total study commitment per week is 26 hours per week (30 hours per week if attending supervised study sessions).

Face to face classes is scheduled during the day or night or mixture of both. Day time classes are 8 hours and night classes are 4 hours in duration. Day classes operate from 8.30am to 5.30pm and night classes 6.00 to 10.00pm.

Students also have the option of attending a supervised study session for 4 hours per week.

### **ENTRY REQUIREMENTS**

Students must be over 18 years of age at the time of course commencement. Students must secure an appropriate visa that allows them to study in an Australian Registered Training organisation prior to course commencement.

### **ACADEMIC ENTRY REQUIREMENTS**

To gain entry to this course, students should have successfully completed year 12 or secondary studies in applicant's home country equivalent to an Australian Year 11\* or 12 qualifications. (\*Subject to the country Assessment Level) and course.

### **ENGLISH LANGUAGE ENTRY REQUIREMENTS**

Applicants for this qualification must have a minimum English language proficiency of IELTS 6.0 (overall band) or an equivalent exam result recognised by the Australian Department of Home Affairs. This entry requirement includes applicants demonstrating a minimum of IELTS 5.5 in each component.

### **NUMERACY AND DIGITAL LITERACY ENTRY REQUIREMENTS**

Applicants for this course should possess numeracy skills of ACSF level 2 and digital literacy skills of level 3. During the enrolment process your numeracy and digital literacy ability is assessed to ensure you can address course requirements.

### **RESOURCE ENTRY REQUIREMENTS**

Students must supply their own laptop with Microsoft Office software e.g., Office 365 Personal that includes Outlook, Word, Excel, PowerPoint, & Publisher. Institute will confirm the software requirements with each student pre-enrolment. Students must supply their own safety shoes with protective toe caps.

### **PRE-TRAINING REVIEW**

To ensure applicants are placed in a suitable course with an appropriate training and assessment strategy, we review applicants existing knowledge, skills, experience, and qualifications. You will be asked to complete this Pre-Training Review form during the enrolment process by providing details of your existing knowledge, skills, experience, and qualifications that are relevant to the course being applied for. This includes an assessment of your numeracy and digital literacy skills. This process helps us determine the most suitable course for you and identify any learning needs you may have and whether we can appropriately support these. Gippsland Institute of Technology will then review this information and respond to you with the outcome of the review.

### **RECOGNITION OF PRIOR LEARNING (RPL)**

Recognition of Prior Learning is the process of formal recognition for skills and knowledge gained through previous learning. You may be eligible for recognition of prior learning for part or all your intended course, based on your previous experiences and learning.

### **CREDIT TRANSFER**

You may be eligible for a credit transfer if you have previously undertaken training through an Australian Registered Training Organisation. Students who have successfully completed whole units of competency with an Australian Registered Training Organisation that are identical to any of those contained within this course can apply for Credit Transfer.

### **TRAINING PATHWAY**

Students who successfully complete this course may progress onto Advanced Diploma, Bachelor or Graduate Diploma of engineering field.

### **EMPLOYMENT PATHWAY**

This course provides participants with the skills to obtain the occupational position across various industrial sectors. Job roles and titles vary across these different industry sectors. Possible job titles relevant to this qualification include other tradespersons, technicians, engineers and production personnel.

Completing this course does not guarantee a graduate will secure a relevant job.

**TUITION FEE (52 week course duration):** \$25,000

**MATERIALS FEE:** \$1,750 (Includes cost of learning materials and hire of tools).

**ENROLMENT FEE:** \$250

**PAYMENT:** On enrolment \$14,500 is payable of which \$250 is a non-refundable enrolment fee. The materials fee is non-refundable after students have commenced their course. \$12,500 is payable one week prior to the commencement of term 3 or to help manage the cost of your study Gippsland Institute of Technology offers a payment by instalments. This means you make small regular payments. Your first payment is required to confirm your enrolment in the course.

**RECOGNITION OF PRIOR LEARNING FEE:** Refer to Fees and refund procedure for details. All fees indicated are in Australian dollars.

#### **WORK SHOES**

The following suppliers sell work shoes. Refer to the sites for information on prices.

<https://www.Kmart.com.au> <https://www.tradiesworkwearshop.com.au> <https://www.hardyakka.com.au/>

#### **FURTHER INFORMATION**

Please contact the GIT Admission Team on details below:

www.git.vic.edu.au | +61 3 5941 5070 | [info@git.vic.edu.au](mailto:info@git.vic.edu.au)  
4/70 Main Street, Pakenham, Melbourne, VIC 3810, Australia  
**RTO: 45698 CRICOS No: 03921A**





# Gippsland Institute of Technology

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