

Manufacturing & Engineering

Diocese of Lismore Catholic Schools Limited 45649

Certificate I in Engineering -

MEM10119

Statement of Attainment Certificate II in Engineering Pathways - MEM20413

Recognition	Nationally recognised AQF Training Qualification
Course Hours	240 hours
Course Type	Board Endorsed
Duration	2 years
Unit Value	2 Unit Preliminary & 2 Unit HSC
Workplacement	Mandatory
Year 12	120 hr (2 Unit) extension will be offered to apprentices and students enrolled in the 240 hr course wanting a career in this industry. Eg Fabrication / Mechanical.
School-based Apprenticeship & Traineeships possible	Opportunity to progress through Stage One of their apprenticeship and gain credit towards their HSC.

ANTICIPATED COURSE COSTS

YEAR 11 - \$100

YEAR 12 - \$80

Extension Course* YEAR 12 - \$95

Includes welding gloves, helmet and
materials

This course aims to provide students with basic production level skills in manufacturing, engineering and related industry areas. Students will gain the competencies required by an entry level worker in this field.

Mechanical engineering tradespersons carry out a range of mechanical work on machines, sub-assemblies and manufactured parts using a range of processes, tools and machines.

Fabrication engineering tradespersons cut, shape, join and finish metal to make, maintain or repair metal products and structures. They may bend, shape and weld metal objects, apply coatings and work with a variety of materials.

ASSESSMENT

Assessment strategies include:

- Observation
- Written tasks
- Integrated practical tasks
- Competency tests

FURTHER STUDY

Certificate III in Engineering (Mechanical or Fabrication) in the MEM05 Metal and Engineering Training Package.

CAREER PATHWAYS

Sheet Metal Worker, Welder, Machinist, Equipment Maintainer & Repairer, CNC Operator, Fluid Power Mechanic, Maintenance Mechanic, Plant Mechanic, Mechanical Fitter, Tool and Die Maker, Design Engineer, Mechanical and Maintenance Engineer.

SAFETY REQUIREMENTS

- College long sleeve trade shirt and black leather work boots *See page 14*
- Long pants for welding classes & workplacement *See page 14*
- A Safety Pack is essential for all trade students, including safety glasses, hearing protection and dust mask, available for purchase at the College.
- All students undertaking this course must have a White card qualification. The College will provide access to training with costs provided upon enrolment.

Topics Studied Include...

- Undertake manual handling
- Work safely and effectively in manufacturing and engineering
- Organise and communicate information
- Apply principles of occupational health and safety in the work environment
- Use hand tools
- Use power tools/hand held operations
- Use workshop machines for basic operations
- Perform routine oxy fuel gas welding
- Use comparison and basic measuring devices
- Use electric welding machines
- Undertake a basic engineering project
- Use fabrication equipment
- Develop a career plan for the engineering and manufacturing industry



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