CATHOLIC SCHOOLS OFFICE, LISMORE DIOCESE 7054

THE INFORMATION PROVIDED IS CORRECT AT 6 APRIL 2017

METAL & ENGINEERING

This VET course provides students with broad-based underpinning competencies in a range of engineering skills. Students undertaking this course will work on lathes and milling machines as well as learning about hand and power tools and precision measurement tools. Students will have the opportunity to learn welding skills using manual metal arc and gas metal arc process as well as the oxy acetylene welding.

COURSE DETAILS

QUALIFICATION OUTCOMES	Students who demonstrate competency in the required units of competency will be eligible for Certificate I in Engineering (MEM10105)
HOURS	240 hours
DELIVERY	Face-to-face by qualified staff
TYPE	Board Developed Course Category B
DURATION	2 years
UNIT VALUE	2 unit Preliminary 2 unit HSC
SPECIALISATION	Yes
HSC EXAM	Yes
ATAR	Yes
WORKPLACEMENT	Mandatory 70 hours
RECOGNITION	National AQF and HSC Qualification
SBAT	Opportunity to complete a School Based Apprenticeships or a Traineeship and gain credit towards the HSC - MEM20105 Certificate II in Engineering
ENTRY REQUIREMENTS	There are no formal entry requirements for this qualification
COURSE FEES	A course fee is generally charged by schools to cover consumable materials. Your school will provide further information.
RESOURCES REQUIRED	• Work boots or leather shoes as directed by the school • PPE gear as directed by
RECOGNITION OF PRIOR LEARNING	RPL is available for students who have previously gained the skills and knowledge required. Your school will provide further information.

UNITS OF COMPETENCY

• Manufacturing, engineering and related services industries	INDUCTION
• Apply principles of occupational health and safety in the work environment	MEM13014A
• Use hand tools	MEM18001C
• Plan to undertake a routine task	MEM14004A
• Perform routine manual metal arc welding	MEM05012C
• Perform routine oxy acetylene welding	MEM05004C
• Work with others in a manufacturing, engineering or related environment	MEM16007A
• Perform engineering measurements	MEM12023A
• Carry out mechanical cutting	MEM05005B
• Use power tools/hand held operations	MEM18002B
• Interpret technical drawing	MEM09002B
• Use workshop machines for basic operations	MEM07032B
• Use comparison and basic measuring devices	MEM12001B
• Apply quality systems	MEM15002A
• Apply quality procedures	MEM15024A
• Perform computations	MEM12024A

ASSESSMENT

This course is competency based and the student's performance is assessed against prescribed industry standards. Assessment methods may include:

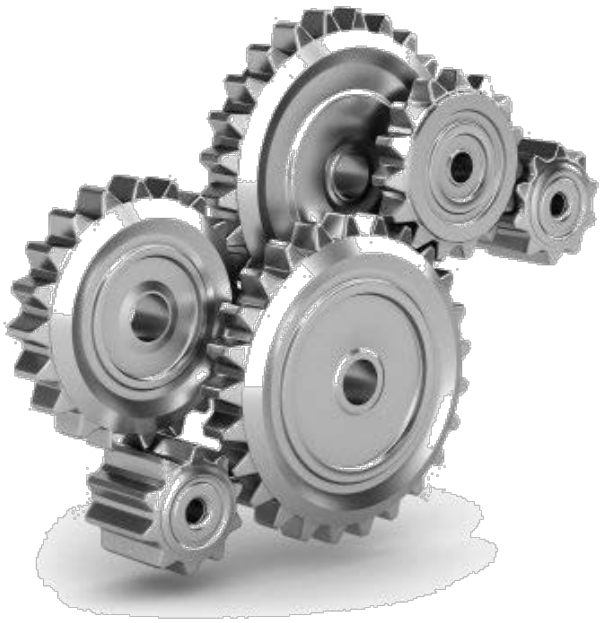
- Observation
- Student Demonstration
- Questioning
- Written tasks
- Tests

METAL & ENGINEERING

PERSONAL REQUIREMENTS

This course would suit students who…

- Enjoy technical and engineering activities
- Good with hands
- Enjoy practical and manual activities
- Able to work efficiently
- Able to work as part of a team
- Safety-conscious
- Able to cope with the physical demands of the job.



CAREER PATHWAYS

- Sheet Metal Worker
- Machinist
- Equipment Maintainer & Repairer
- Plant Mechanic
- Mechanical Fitter
- Tool and Die Maker
- Design Engineer
- CNC Operator
- Mechanical and Maintenance Engineer

JOB ROLES

Trades' assistants related to this qualification include:

- Factory Worker
- Metal Production Assistant

DUTIES & TASKS OF A METAL TRADES ASSISTANT

Metal trades assistants may perform the following tasks:

- Position and hold metal stock or products to enable work to be carried out
- Perform assembly and dismantling operations, such as screwing or bolting
- Solder or spot-weld components using electrical spot or butt welding machines
- Operate power hammers, presses or other cutting and shaping tools and machines
- Transport tools, materials and work pieces to and from sites or workbenches
- Hand tools to tradespersons and hold tools not immediately required
- Clean and prepare working surfaces.

FURTHER STUDY

- Engineering - Mechanical Trade
- Engineering - Electrical/Electronic Trade
- Engineering - Fabrication Trade
- Engineering – Technical
- Boating Services

For further information: http://www.myskills.gov.au/
Type the qualification code into the search bar, then click on the qualification title.
Explore Career Pathways and Student Outcomes including Employment, Salary, Occupations

FOR MORE INFORMATION CONTACT:
REGISTERED TRAINING ORGANISATION - 7054
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