

# MANUFACTURING & ENGINEERING VET

**FACULTY**  
TAS

**CHARGE**  
\$100

Costs cover consumables and equipment provided for practical learning

**HOURS**  
120 of 240 hrs

Board endorsed. Students can complete 120 hours towards a Cert I VET qualification in this elective.

This course provides students with the opportunity to commence study towards a Certificate I VET qualification in Engineering. The full board developed course is 240 hours in length so students may opt to complete it in Year 11.

This qualification defines entry-level skills and knowledge to assist workers entering employment as engineering/manufacturing employees within the metal, engineering, manufacturing and associated industries.

Course topics include:

- Work safety and manual handling
- Using hand tools
- Using workshop machines
- Undertaking a basic engineering project

## STAGE 6 SUBJECT SELECTION

Cert I Engineering  
Cert II Engineering  
Manufacturing and Engineering (VET) 2 units

## HIGHER EDUCATION

Cert IV Engineering  
Electrical Engineering  
Mechanical Engineering

## CAREER OPPORTUNITIES

Fitter  
Machinist  
Toolmaker  
Refrigeration and air conditioning mechanic  
Engineer

**2024 MANUFACTURING AND ENGINEERING INTRODUCTION COURSE DESCRIPTOR**  
**MEM10119 Certificate I in Engineering and Statement of Attainment towards MEM20413**  
**Certificate II in Engineering Pathways**  
 Public Schools NSW, Tamworth RTO 90162

This document may change due to Training Package and NSW Education Standards Authority (NESA) updates. Notification of variations will be made in due time

Course: **Manufacturing and Engineering - Introduction**  
 Board Endorsed Course **240 hour**

2 or 4 Preliminary and/or HSC units in total  
**There is not an Australian Tertiary Admission Rank (ATAR) option for this course**

By enrolling in a VET qualification with Public Schools NSW, Tamworth RTO 90162 you are choosing to participate in a program of study that will provide you with the best possible direction towards a nationally recognised qualification. To receive this AQF VET qualification, you must meet the assessment requirements of MEM10119 Certificate I in Engineering and Statement of Attainment towards MEM20413 Certificate II in Engineering Pathways <https://training.gov.au/Training/Details/MEM10119> and <https://training.gov.au/Training/Details/MEM20413> as outlined in the TAS.

You will also be expected to complete all requirements relevant to the HSC and adhere to the requirements of NESA. This course is accredited for the HSC and provides students with the opportunity to obtain nationally recognised vocational training. This is known as dual accreditation. To gain a full qualification, students must achieve all competencies. A statement of attainment towards the qualification is possible if at least one unit of competency is achieved.

**Recommended Entry Requirements**

Students complete a VET Enrolment Form, supplying their USI and be assessed for learning support (eg LLN Robot) before the commencement of any training and assessment. Students must have completed All My Own Work before enrolling in this qualification and be work ready before work placement. Students selecting this course should be interested in working in the manufacturing engineering industry. Students should be able to carry out manual activities eg lifting, carrying and shifting loads of materials and have the ability to use hand and power tools. They should be able to use a personal digital device including a personal computer or laptop.

**Manufacturing and Engineering Training Package (MEM 2.1) Units of Competency**

**Core**

MEM13015 Work safely and effectively in manufacturing and engineering  
 MEMPE006A Undertake a basic engineering project  
 MEMPE005A Develop a career plan for the engineering and manufacturing industry

**Electives:**

MEM16006 Organise and communicate information  
 MEM11011 Undertake manual handling  
 MEM12024 Perform computations  
 MEM18001 Use hand tools  
 MEM18002 Use power tools/handheld operations  
 MEM16008 Interact with computing technology  
 MEM07032 Use workshop machines for basic operations  
 MEMPE001A Use engineering workshop machines  
 MEMPE002A Use electric welding machines  
 MEMPE004A Use fabrication equipment

**Refer to the TAS for the qualification packaging rules.**

Students may apply for Recognition of Prior Learning (RPL) and /or Credit Transfer before delivery, provided suitable evidence is submitted.

**Pathways to Industry - Skills gained in this course transfer to other occupations**

This qualification defines entry-level skills and knowledge to assist workers entering employment as engineering/manufacturing employees within the metal, engineering, manufacturing and associated industries.

**Examples of occupations in the Manufacturing and Engineering industry:**

- fitter
- refrigeration and air conditioning mechanic
- toolmaker
- machinist
- maintenance fitter

**Mandatory HSC Course Requirements**

Students must complete 240 indicative hours of course work and a minimum of 35 hours work placement. Students who do not meet these requirements will be 'N' determined as required by NESA.

**External Assessment** There is **not** an external assessment (optional HSC examination) for this course and this course **does not** contribute towards an ATAR.

**Competency-Based Assessment**

Students in this course work to develop the competencies, skills and knowledge described by each unit of competency listed above. To be assessed as competent a student must demonstrate to a qualified assessor the competency requirements for performance and knowledge of the units/s of competency.

**Appeals and Complaints**

Students may lodge a complaint or an appeal about a decision (including assessment decisions) through the VET trainer.

**Course Cost: Preliminary - \$100**  
**Students need to buy workbooks, pants, shirts, PPE**

**Refunds**

Refund Arrangements on a pro-rata basis.  
 Please refer to your school refund policy

A school-based traineeship is NOT available in this course, for more information: <https://education.nsw.gov.au/public-schools/career-and-study-pathways/school-based-apprenticeships-and-traineeships>

**Exclusions:** VET course exclusions can be checked on the NESA website at <http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/vet/course-exclusions>