AQF CODE N/A | COURSE CODE MEM40119 | COURSE TYPE Qualification | RTO 3097

Overview

This course is specifically designed to cover the skills and knowledge required for employment as a higher level Engineering Tradesperson or a Special Class Engineering Tradesperson (Mechanical) and associated industries, or at equivalent levels in other industries where Engineering Tradespersons work. This course is ideal for tradespeople nearing completion or who have completed an apprenticeship, or are experienced in the trade (Fabrication or Fitter and Turner) wanting to broaden their skill set, or move into supervisory roles.

Public applicants can apply for this course without industry experience, upon agreement.

This course is also available under an Australian Apprenticeship Agreement, please contact the Australian Apprenticeship Support Network (AASN) which is your first point of contact for queries about a traineeship or apprenticeship, www.australianapprenticeships.gov.au/about-aasn.

Request an interview to discuss your relevant workplace: Need to discuss further? Simply call our friendly Customer Experience team and request further discussion with the Engineering Department to discuss your individual workplace requirements and previous study.

Duration

Up to 4 Years (Students already with trade qualifications will receive credit transfer where applicable)

Requirements

Applicants must either be currently employed in a relevant engineering trade, or be completing an apprenticeship.

Field Placement

Placement opportunities may be available/necessary depending on previous industry experience.

Assessment

The assessments will enable students to demonstrate the underpinning knowledge, skills and attributes required to meet the course outcomes. These will involve the assessment of your practical and theoretical knowledge through written assessments, practical projects or observations.

Other Information

Request an interview to discuss your relevant workplace: Need to discuss further? Contact Wodonga TAFE Engineering department to discuss your individual workplace requirements and previous study. Simply call our friendly Customer Experience team and request further discussion with Engineering.

Learning Outcomes



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- 2D and 3D computer aided design
- · CNC programming and operation
- · Lathe operations
- · Hydraulics and pneumatics
- · Milling operations
- Advanced welding
- General engineering There are optional electives available relevant to your workplace, so learning outcomes may differ per student

Compulsory Units

MEM09002 - Interpret technical drawing

MEM11011 - Undertake manual handling

MEM12023 - Perform engineering measurements

MEM12024 - Perform computations

MEM13015 - Work safely and effectively in manufacturing and engineering

MEM14006 - Plan work activities

MEM16006 - Organise and communicate information

MEM16008 - Interact with computing technology

MEM17003 - Assist in the provision of on-the-job training

MEM18001 - Use hand tools

MEM18002 - Use power tools/hand held operations

MSMENV272 - Participate in environmentally sustainable work practices

Selectable Units

MEM05005 - Carry out mechanical cutting

MEM05006 - Perform brazing and/or silver soldering

MEM05007 - Perform manual heating and thermal cutting

MEM05009 - Perform automated thermal cutting

MEM05010 - Apply fabrication, forming and shaping techniques

MEM05012 - Perform routine manual metal arc welding

MEM05037 - Perform geometric development

MEM05049 - Perform routine gas tungsten arc welding

MEM05050 - Perform routine gas metal arc welding

MEM05052 - Apply safe welding practices

MEM05056 - Perform routine flux core arc welding

MEM05071 - Perform advanced manual thermal cutting, gouging and shaping

MEM05072 - Perform advanced welding using manual metal arc welding process

MEM05073 - Perform advanced welding using gas metal arc welding process

MEM05074 - Perform advanced welding using gas tungsten arc welding process

MEM05085 - Select welding processes

MEM05089 - Assemble fabricated components

MEM05090 - Weld using manual metal arc welding process



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MEM05091 - Weld using gas metal arc welding process

MEM05092 - Weld using gas tungsten arc welding process

MEM05096 - Weld using flux core arc welding process

MEM07005 - Perform general machining

MEM07006 - Perform lathe operations

MEM07007 - Perform milling operations

MEM07015 - Set computer controlled machines and processes

MEM07016 - Set and edit computer controlled machines and processes

MEM07018 - Write basic NC and CNC programs

MEM07019 - Program NC and CNC machining centre

MEM07021 - Perform complex lathe operations

MEM07032 - Use workshop machines for basic operations

MEM09003 - Prepare basic engineering drawing

MEM09009 - Create 2-D drawings using computer-aided design system

MEM09010 - Create 3-D models using computer-aided design system

MEM12003 - Perform precision mechanical measurement

MEM12006 - Mark off/out (general engineering)

MEM12007 - Mark off/out structural fabrications and shapes

MEM13003 - Work safely with industrial chemicals and materials

MEM18003 - Use tools for precision work

MEM18005 - Perform fault diagnosis, installation and removal of bearings

MEM18006 - Perform precision fitting of engineering components

MEM18007 - Maintain and repair mechanical drives and mechanical transmission assemblies

MEM18009 - Perform precision levelling and alignment of machines and engineering components

MEM18011 - Shut down and isolate machines/equipment

MEM18012 - Perform installation and removal of mechanical seals

MEM18018 - Maintain pneumatic system components

MEM18019 - Maintain pneumatic systems

MEM18020 - Maintain hydraulic system components

MEM18021 - Maintain hydraulic systems

MEM18055 - Dismantle, replace and assemble engineering components

MEM24001 - Perform basic penetrant testing

MEM30012 - Apply mathematical techniques in a manufacturing engineering or related environment

Fees

FREE TAFE: This course is free to eligible individuals.

2025	Tuition	Materials	Total
Government Funded	\$4,760	-	\$4,760
Concession	\$952	-	\$952



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Total	Materials	Tuition	2025
\$16,320	_	\$16,320	Full Tuition

Fees Additional Information

The student tuition fees published are indicative only and can be subject to change given individual circumstances at the time of enrolment.

Funding made available to eligible individuals by State and Commonwealth Governments. If funding is utilised, this may affect future opportunities to access additional funding in the future. For more information see 'Fee information and eligibility' under the Enrol Now tab on the Wodonga TAFE website.

