

# Certificate III in Engineering

## Fabrication Trade - MEM30305



### Job Description

Employees produce metal (ferrous and non-ferrous) fabricated products such as structures, frames, plate assemblies, pipe-work and vessels using tools, welding and thermal cutting equipment and fabrication techniques. Welds are undertaken to pre-determined standards and may be tested for compliance to required standards. Fabricators/Boilermakers use a wide range of hand and hand held power tools and workshop machines such as drills, grinders, clamps, benders and lifting equipment. Metal, Engineering and Associated Industries Award classification on completion: C10. Nominal hours 960.

### SUMMARY OF TRAINING

#### Core Units (12)

- > MEM12023A Perform engineering measurement
- > MEM12021A Perform computations
- > MEM13014B Apply principles of OHS in the work environment
- > MEM14004A Plan to undertake a routine task
- > MEM14005A Plan a complete activity
- > MEM15002A Apply quality systems
- > MEM15024A Apply quality procedures
- > MEM16006A Organise and communicate information
- > MEM16007A Work with others in a manufacturing, engineering or related environment
- > MEM16008A Interact with computing technology
- > MEM17003A Assist in the delivery of on the job training
- > MSAENV272B Participate in environmentally sustainable work practices

#### Example Elective Units

- > MEM03003B Perform sheet and plate assembly
- > MEM05004C Perform routine oxy acetylene welding
- > MEM05005B Carry out mechanical cutting
- > MEM05006B Perform brazing and/or silver soldering
- > MEM05007C Perform manual heating and thermal cutting
- > MEM05010C Apply fabrication, forming and shaping techniques
- > MEM05011D Assemble fabricated components
- > MEM05012C Perform routine manual metal arc welding
- > MEM05015D Weld using manual metal arc welding process
- > MEM05016C Perform advanced welding using manual metal arc welding process
- > MEM05017D Weld using gas metal arc welding process
- > MEM05019D Weld using gas tungsten arc welding process

See over...

## SUMMARY OF TRAINING (cont.)

### Example Elective Units

- > MEM05036C Repair/replace/modify fabrications
- > MEM05037C Perform geometric development
- > MEM05049B Perform routine gas tungsten arc welding
- > MEM05050B Perform routine gas metal arc welding
- > MEM05051A Select welding processes
- > MEM05052A Apply safe welding practices
- > MEM0900DB Interpret technical drawing
- > MEM12007D Mark off/out structural fabrications and shapes
- > MEM18001C Use hand tools
- > MEM18002B Use power tools/hand held operations
- > MEM30012A Apply mathematical techniques in a manufacturing engineering or related environment

**Note** *Please be aware that this Job and Training Description is designed to be a guide only to the selection of non-compulsory units. Alternative combinations of units may be selected. In some cases Apprentices may also have to complete prerequisite units. Employers and prospective Apprentices can obtain further information in this regard from ATEC, refer contact details below.*

### Recognition of Prior Learning

Recognition of Prior Learning (RPL) is a process where a student may be granted credit or partial credit towards a qualification in recognition of skills and knowledge gained through work experience, life experience and/or formal training.

### Entry Requirements

Students must be apprenticed to an employer.

### Fee Information

The cost of a course depends on the number of hours nominated for each unit of competency, the type of study involved and whether the course is subsidised by the government or is fee-for-service.

Each government-subsidised course has a set fee based on the nominated hours for each unit. Fees vary between courses depending on the nature of the course. In general this Award course is subsidised by the government. The student/employer contribution is currently charged at \$2.00 per nominal hour for each unit.

Fee-for-service courses are negotiated prior to the commencement of training.

Depending on the course, there may be an additional charge for materials, textbooks and uniforms/personal protective equipment (PPE).

Details of all fees for government-subsidised and fee-for-service courses are available prior to enrolment from ATEC Student Administration.

Training undertaken under an Australian Apprenticeship may attract additional incentives under a range of initiatives in the Australia Government's Skilling Australia for the future initiative. This may include incentives to take up a trade or upgrade your skills. For more information refer to the contact details below.

### For More Information

Call ATEC 1300 112 832 and ask for:

- > ATEC Training for further information about the training component of an apprenticeship or;
- > ATEC Australian Apprenticeships Centre for general information about Apprenticeships and incentives.