



# FABRICATION

## INTERNATIONAL STUDENTS



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### MEM40105 | Certificate IV in Engineering

CRICOS Code: 072114E | Release 4 (15/09/2013)

This qualification covers the skills and knowledge required for employment as a Higher Engineering Tradesperson or a Special Class Engineering Tradesperson (Mechanical) – Level II, Special Class Engineering Tradesperson (Fabrication) – Level II, Special Class Engineering Tradesperson (Electrical/Electronic) – Level II within the metal, engineering, manufacturing and associated industries or at equivalent levels in other industries where Engineering Tradespersons work.

The qualification has been specifically developed to be delivered to people who are existing engineering tradespersons who choose to study at a higher level. The qualification may also be achieved through formal skills recognition assessment processes.

Location <small>Subject to variance depending on the time of enrolment</small>	201 Arden St, North Melbourne, VIC 3051	
Duration	80 weeks incl. holidays	
Total Tuition Weeks	68 weeks	
Delivery & assessment mode	Face-to-face, combination of theory, practical and/or project assessments	
Entry requirements	<ul style="list-style-type: none"> <li>Completion of year 11 or equivalent. (Subject to the assessment and approval of Baxter Institute Admission team.)</li> <li>English requirements: IELTS 5.5 or TOEFL PB 506, TOEFL IBT 62, PTE Academic 46, CAE &amp; CPE (from 2015) 162</li> <li>Applicants must be 18 years of age and above</li> <li>Successful completion of Pre-training review (PTR)</li> <li>LLN Level 3</li> </ul>	
Work based training/ Work placement	NIL	
Possible pathways for further study	MEM50105 Diploma of Engineering Advanced Trade or other relevant qualifications <small>(Qualifications not offered at Baxter)</small>	
Possible occupational outcomes	Higher Engineering Tradesperson or a Special Class Enigerring Tradesperson-level II	
Fees & Charges*	Offshore international	Onshore international
Tuition fee	\$16,800	\$16,000
Administration fee	\$200	\$200
Materials fee	\$750	\$750

\*Tuition fees and other course related fees are not subject to change once a student has enrolled.  
All equipment & resources are at student's expense

### Units of Competency

#### CORE:

MEM13014A	Apply principles of occupational health and safety in the work environment
MEM16008A	Interact with computing technology
MEM12024A	Perform computations
MEM12023A	Perform engineering measurements
MSAENV272B	Participate in environmentally sustainable work practices
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM17003A	Assist in the provision of on the job training
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment

#### ELECTIVE:

MEM11011B	Undertake manual handling
MEM05052A	Apply safe welding practices
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM03003B	Perform sheet and plate assembly
MEM09002B	Interpret technical drawing
MEM05005B	Carry out mechanical cutting
MEM05051A	Select welding processes
MEM05004C	Perform routine oxy acetylene welding
MEM05006C	Perform brazing and/or silver soldering
MEM05007C	Perform manual heating and thermal cutting
MEM05008C	Perform Advanced manual thermal cutting, gouging and shaping
MEM05014C	Monitor quality of production welding/fabrications
MEM24001B	Perform basic penetrant testing
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
MEM05050B	Perform routine gas metal arc welding
MEM05017D	Weld using gas metal arc welding process
MEM05018C	Perform Advanced welding using gas metal arc welding process
MEM12007D	Mark off/out structural fabrications and shapes
MEM05047B	Weld using flux core arc welding process
MEM05048B	Perform Advanced welding using flux core arc welding process
MEM11016B	Order materials
MEM05049B	Perform routine gas tungsten arc welding
MEM05019D	Weld using gas tungsten arc welding process
MEM05013C	Perform manual production welding
MEM05037C	Perform geometric development
MEM05020C	Perform Advanced welding using gas tungsten arc welding process
MEM16012A	Interpret technical specifications and manuals
MEM09009C	Create 2D drawings using computer aided design system
MEM09010C	Create 3D models using computer aided design system
MEM05026C	Apply welding principles
MEM05043B	Perform welds to code standards using gas metal arc welding process