

MEM50105 Diploma of Engineering – Advanced Trade

CRICOS COURSE CODE: 094581G

COURSE AIM:	This course will develop the skills and knowledge you need to have a successful career as an engineering tradesperson, specialising in diesel fitting/welding.
DURATION:	2 years / 4 semesters – 20 hours per week + independent study
ENTRY REQUIREMENTS	Year 12 or equivalent with pass in maths IELTS 5.5 or equivalent; Min age 18 years
DELIVERY METHODS	This course is delivered face-to-face and includes: <ul style="list-style-type: none"> • classroom based theory learning; and • practical sessions in the Brendale engineering shed. • Consolidation of learning takes place through completion of workbook activities and completion of ongoing practical tasks Units are delivered in clusters/stages to support holistic work tasks
ASSESSMENT METHODS	You will be assessed continuously throughout the course through completion of written tests, demonstration of practical tasks using real job tasks & completion of case-studies as applicable
COMPLETION:	To be granted your Award you are required to successfully complete all of the Units of Competency listed below . Where all Units of Competency are not achieved or completed to a satisfactory standard you will be awarded a Statement of Attainment in partial completion.

QUALIFICATION PATHWAY

MSAENV272B Participate in environmentally sustainable work practices	MEM16007A Work with others in a manufacturing engineering or related environment
MEM13014A Apply principles of OH&S in the work environment	MEM18005B Perform fault diagnosis, installation and removal of bearings
MEM12023A Perform engineering measurements	MEM16013A Operate in a self-directed team
MEM18021B Maintain hydraulic systems	MEM16014A Report technical information
MEM14005A Plan a complete activity	MEM18003C Use tools for precision work
MEM18001C Use hand tools	MEM15002A Apply quality systems
MEM18002B Use power tools/hand held operations	MEM15024A Apply quality procedures
MEM16012A Interpret technical specifications and manuals	MEM16009A Research and analyse engineering information
MEM14004A Plan to undertake a routine task	MEM09002B Interpret technical drawing
MEM18032B Maintain induction/exhaust systems	MEM18035B Diagnose and rectify braking systems
MEM05052A Apply safe welding practices	MEM18029B Tune diesel engine
MEM18040 Maintain suspension systems	MEM18041B Maintain steering systems
MEM18011C Shutdown & isolate machines & equipment	MEM16011A Communicate with individuals & small groups
MEM18012B Perform installation and removal of mechanical seals	MEM12004B Perform precision electrical/electronic measurement
MEM18044C Diagnose and rectify drive line and final drive	MEM05012C Perform routine manual metal arc welding
MEM18043C Diagnose and rectify automatic transmission systems	MEM18055B Dismantle, replace and assemble engineering components
MEM12025A Use graphical techniques & perform simple statistical computations	MEM18030B Diagnose and rectify low voltage electrical systems
MEM05005B Carry out mechanical cutting	MEM18006C Repair and fit engineering components
MEM05015D Weld using manual metal arc welding processes	MEM12003B Perform precision mechanical measurement
MEM18010C Perform equipment condition monitoring and recording	MEM30012A Apply mathematical techniques in a manufacturing, engineering related environment
MEM05051A Select welding processes	MEM16006A Organise and communicate information
MEM05050B Perform routine gas metal arc welding	MEM16008A Interact with computing technology
MEM12024A Perform computations	MEM18020B Maintain hydraulic system components
MEM18024B Maintain engine cooling systems	MEM18026C Test compression ignition fuel systems
MEM17003A Assist in the provision of on the job training	MEM05017D Weld using gas metal arc welding process

