HSC COURSE DESCRIPTION 2012 – METAL & ENGINEERING

Board Developed Course

Minimum mandatory work placement – 70hrs

A total of 4 units of credit - Preliminary and/or HSC Category B status for Australian Tertiary Admission Rank (ATAR)

This curriculum framework includes courses which are accredited for the HSC and provides students with the opportunity to obtain nationally recognised vocational qualifications. This is known as dual accreditation.

Course Description

This course is for students who wish to develop knowledge and skills to commence a career and be an effective employee in the metal & engineering industry.

Course Structure

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<tr>
<th>COMPULSORY UNITS</th>
<th>ELECTIVE UNITS</th>
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<tbody>
<tr>
<td>MEM09002B Interprete technical drawing</td>
<td>MEM05005B Carry out mechanical cutting</td>
</tr>
<tr>
<td>MEM12023A Perform engineering measurements</td>
<td>MEM11011B Undertake manual handling</td>
</tr>
<tr>
<td>MEM12024A Perform computations</td>
<td>MEM16008A Interact with computer technology</td>
</tr>
<tr>
<td>MEM10314A Apply principles of occupational health and safety in the work environment</td>
<td>MEM16005A Operate as a team member to conduct manufacturing, engineering or related activities</td>
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<tr>
<td>MEM14004A Plan to undertake a routine task</td>
<td>MEM03001B Perform manual production assembly</td>
</tr>
<tr>
<td>MEM10002A Apply quality systems</td>
<td>MEM03003B Perform sheet and plate assembly</td>
</tr>
<tr>
<td>MEM15004A Apply quality procedures</td>
<td>MEM05050B Perform routine gas metal arc welding</td>
</tr>
<tr>
<td>MEM18001C Use hand tools</td>
<td>MEM12001B Use comparison and basic measuring devices</td>
</tr>
<tr>
<td>MEM16007A Work with others in a manufacturing, engineering or related environment</td>
<td>MEM05012C Perform routine manual metal arc welding</td>
</tr>
<tr>
<td>MEM18002B Use power tools/hand held operations</td>
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Assessment and Course Completion

Competency-based Assessment

Students in this course work to develop the competencies, skills and knowledge described by each unit of competency. To be assessed as competent a student must demonstrate that they can effectively carry out tasks to industry standard. Students will be progressively assessed as ‘competent’ or ‘not yet competent’ in individual units of competency.

Optional HSC examination

Students completing this course are eligible to sit an optional, written HSC examination. The purpose of the examination is to provide a mark which may be used in the calculation of the ATAR. The examination is independent of the competency-based assessment undertaken during the course and has no impact on the eligibility to receive an AQF VET qualification.

N Determinations

Where a student has not met Board of Studies course completion criteria, including meeting work placement requirements – 35hrs (Prelim) / 35hrs (HSC), they will receive an ‘N’ determination (course not satisfactorily completed). The course will then not count towards the HSC although units of competency achieved will still count towards AQF VET qualification.

Appeals

Students may lodge appeals against assessment decisions or ‘N’ determinations through their school or college.
Pathways to Industry
Skills gained in this industry transfer to other occupations. Working in the metal and engineering industry involves:

- constructing, assembling, installing, modifying, repairing and maintaining machines
- assembling, making parts, equipment, machines, instruments and tools
- designing machinery, parts, computer hardware and electronic circuits, using 3D graphics and drafting skills
- managing clients and staff, overseeing quotes and information, leading projects

Examples of occupations students can aim for in the metal and engineering industry:

- engineering draftsman
- engineer (automotive, fabrications, production, plastics, marine, mechanical)
- fitter
- instrument maker
- maintenance fitter
- structural steel and welding supervisor
- toolmaker
- boat builder/repairer
- sailmaker

Course costs: $40 Preliminary + $40 HSC

Course requirements: Sturdy footwear
Personal protective equipment
A4 display folder

Refunds: Students who exit the course before completion may be eligible for a partial refund of fees. The amount of the refund will be pro-rata, dependent upon the time the student has been enrolled in the course.

AQF VET Qualification(s)
Depending on the selection and achievement of units of competency, the possible qualification outcomes are:

- Certificate I in Engineering MEM10105
- Certificate II in Engineering MEM20105
- Statement of Attainment Certificate II in Engineering - Production and Technology MEM20205

Statements of Attainment in partial completion of the above Certificates are also available.

Your teacher or VET Coordinator will advise the competencies and qualifications that may be available.


A school-based traineeship is available in this course, for more information: [http://www.sbatinnsw.info/](http://www.sbatinnsw.info/)

Exclusions: Exclusions with other Board Developed Courses – Industrial Technology – Metals and Engineering Industries Focus Area