The Certificate II in Engineering Studies provides students with the practical skills and theoretical knowledge for employment as an apprentice in various engineering trades or as a pathway to higher education programs post-secondary school.

Students will be required to plan projects, produce engineering sketches and drawings, and fabricate metal components and products.

On successful completion of a VETiS course, students are guaranteed a place in a Swinburne Vocational Education program (subject to entry requirements for the course they wish to undertake are met).

Location and times
Wantirna campus
Wednesday 12.30pm–5.30pm

Mode of delivery
Classroom/Workshop based

Duration
Two years part-time

Outcomes
On successful completion of this program, students will:

- **VCE:** be eligible for up to four units of credit towards their VCE; two units at Units 1 and 2 level and a Units 3 and 4 sequence.

  Students wishing to receive an ATAR contribution for the 3 and 4 sequence of VCE must meet all assessment requirements relating to this program according to the Victorian Curriculum and Assessment Authority dated Jan 2015.

- **VCAL:** meet the requirements for the Industry Specific Skills strand and may also contribute to the Work Related Skills Strand of VCAL.

- **Qualification:** be eligible for a Victorian recognised qualification: 22209VIC Certificate II in Engineering Studies.

Personal protective equipment
Students must wear full-length cotton drill overalls and steel-capped leather work boots. No bib and brace overalls. Clear lens safety glasses will be supplied.

Industry Pathways Program
Students enrolled in this program have access to the Industry Pathways Program. For further information, visit www.vcaa.vic.edu.au/Pages/vet/Industry_pathways_VCE_VCAL.aspx

Structured Workplace Learning
Structured Workplace Learning (SWL) is not required but is strongly recommended by the Victorian Curriculum and Assessment Authority www.vcaa.vic.edu.au/

VCAA recommends that students undertake a minimum of 40 hours of SWL for each year of the program. The finding and management of SWL is the responsibility of the school.

Complementary studies
- Mathematical Methods
- Physics

Pathway opportunities
- Certificate III or IV in Engineering
- Engineering apprenticeship in Mechanical, Fabrication, Automotive or Electrical
- Diploma/Advanced Diploma in Engineering

Fees and application
Contact the Secondary School VET Coordinator or Careers Practitioner.

Career opportunities
- Automotive engineer
- Boilermaker
- Electrical engineer/Electrician
- Fitter and Turner
- Manufacturing engineer
- Mechanical engineer
- Metallurgical engineer

Information for students
Please refer to www.swinburne.edu.au/policies-regulations/ for student rights and responsibilities while on campus.

More information
T: 1300 275 794
E: VETinschools@swin.edu.au
W: www.swinburne.edu.au/vetis
## Certificate II in Engineering Studies

### Units of competency

#### Year 1

<table>
<thead>
<tr>
<th>Unit code</th>
<th>Unit name</th>
<th>Nominal hours</th>
<th>Compulsory / Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEM16006A</td>
<td>Organise and communicate information</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>MEM16008A</td>
<td>interact with computing technology</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>MEM18001C</td>
<td>Use hand tools</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>MEM18002B</td>
<td>Use power tools / hand held operations</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>VU20909</td>
<td>Develop individual career plan for the engineering industry</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>VU20912</td>
<td>Perform basic machining processes</td>
<td>40</td>
<td>E</td>
</tr>
<tr>
<td>VU20916</td>
<td>Create Engineering drawings using computer aided systems</td>
<td>60</td>
<td>E</td>
</tr>
<tr>
<td>MEM13014A</td>
<td>Apply principles of occupational health and safety in the work environment</td>
<td>10</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td><strong>Total nominal units</strong></td>
<td><strong>210</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Year 2

<table>
<thead>
<tr>
<th>Unit code</th>
<th>Unit name</th>
<th>Nominal hours</th>
<th>Compulsory / Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSS402040A</td>
<td>Apply 5S procedures</td>
<td>40</td>
<td>C</td>
</tr>
<tr>
<td>VU20911</td>
<td>Handle engineering materials</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>VU20910</td>
<td>Produce engineering sketches and drawings</td>
<td>20</td>
<td>C</td>
</tr>
<tr>
<td>MSAENV272B</td>
<td>Participate in environmentally sustainable work practices</td>
<td>30</td>
<td>C</td>
</tr>
<tr>
<td>MEM12024A</td>
<td>Perform computations</td>
<td>30</td>
<td>C</td>
</tr>
<tr>
<td>VU20905</td>
<td>Assist with the design of a basic mechanical system</td>
<td>60</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td><strong>Total nominal units</strong></td>
<td><strong>200</strong></td>
<td></td>
</tr>
</tbody>
</table>

Information is current at the time of publication (July 2016) but is subject to change.