

# Stage 1 Material Products Semester 1 & 2 Overview 2019

Teacher: Jason Westlake

Weeks	Topic	Summative Assessments
<p><b>Term 1</b></p>	<p><b>Week 1-</b> No lesson due to public Holiday.  <b>Week 2-</b> Compulsory initial DFE safety, plant and machinery induction (ongoing).</p> <p><b>SACE Content</b></p> <p><b>Skills and Application Task Development – Metal Working Skills.</b>            Students develop a range of welding and hand tool skills. The focus will be on the MIG welding process.</p> <p><b>Performance</b>            Students begin gathering evidence that they can demonstrate the required skills and use self-evaluation to improve their techniques.</p> <p><b>Materials Application Task.</b>            Students investigate and test the properties of at least two materials that may be used in their major projects.</p> <p><b>Performance</b>            Students conduct a range of tests on the chosen materials and prepare a report to support their recommendation to use a certain material.</p>	<p><b>Skills and application tasks weighting (20% of Final grade)</b></p> <p><b>Metal working Skills Evaluation</b>  <b>Task 1:</b> Welding samples with checklist.  <b>Task 2:</b> Thermal cutting samples with checklist.  <b>Weighting 10%.</b></p> <p><b>Assignment due date – 18<sup>th</sup> February 2019.</b></p> <p><b>Materials Application Task</b>            Written report to a maximum of 400 words.  <b>Weighting 10%</b></p> <p><b>Draft due date – 25<sup>th</sup> February 2019.</b>  <b>Assignment due date – 18<sup>th</sup> February 2019.</b></p> <p><b>Skills and application tasks weighting 20%</b></p>
<p><b>Term 2</b></p>	<p><b>Investigation, Planning and Evaluation of product</b>            Students produce a folio comprising of three pieces of evidence of the design process for their product.</p> <p><b>Document 1: Investigation</b>            Students investigate the fabrication of their major product. They create an initial design brief, investigate the functional characteristics and properties of a range of existing products, materials and processes and investigate an issue related to the major product, with a focus on products or processes related to the fabrication of the product.</p> <p><b>Document 2: Planning</b>            Students use the knowledge they have from their investigation to create a range of individual designs for the running engine running stand. They communicate their designs in the form of sketches, concept drawings, and formal plans. Appropriate technical language should be used which conforms to the technology chosen. There should be reference to testing carried out in the materials applications task.</p>	<p><b>Folio Tasks (20% Final Grade)</b></p> <p>Maximum of three pieces of evidence that illustrate the key design phases of investigating, planning and evaluating.            Combined evidence to a maximum of 1600 words if written or a maximum of 10 minutes for oral or, the equivalent in multimodal form.</p> <p><b>Draft due – 20<sup>th</sup> May 2019.</b>  <b>Assignment due date – 10<sup>th</sup> June 2019.</b></p>

	<p><b>Document 3: Evaluation</b></p> <p>Students reflect on improvements to their product and how their product:</p> <ul style="list-style-type: none"> <li>• addresses the design brief requirements</li> <li>• how further modifications could improve the product</li> <li>• what impact the product will have on the environment</li> </ul>	
<b>Term 3</b>	<p><b>Major and Minor Products</b> (Students will begin work on this in term 1 through)</p> <p><b>Product</b></p> <p><b>Minor product record</b> Students demonstrate the application of skills, processes, procedures and techniques to make articles of a chosen standard and specification. They demonstrate proficiency in the use of a range of materials, components, techniques, and equipment to implement schemes or plans safely and accurately during product realization.</p> <p><b>Major Product record</b> Students demonstrate the application of skills, processes, procedures, and techniques to make articles of a chosen standard and specification. They demonstrate proficiency in the use of a range of materials, components, techniques, and equipment to implement schemes or plans safely and accurately during product realization.</p>	<p><b>Product (60% of Final Grade)</b></p> <p>A product record must be completed for the minor and the major product.</p> <p>Small group work in class.</p> <p>Students negotiate the form of their presentation Written to a maximum of 1000 words or a maximum of 6 minutes for an oral or multimedia.</p> <p><b>Draft due – 2<sup>nd</sup> Sept 2019.</b> <b>Assignment due date – 28<sup>th</sup> Oct 2019.</b></p>
<b>Term 4</b>	<b>Product completion</b>	<b>Major and Minor Product due date – 4th November 2019.</b>

Teacher Contact: Jason Westlake

[jason.westlake@kice.sa.edu.au](mailto:jason.westlake@kice.sa.edu.au)