

# BRACKEN RIDGE STATE HIGH SCHOOL

## YEAR 11 Industrial Technology Skills

### Course overview 2019

TERM ALLOCATION AND LENGTH	UNIT	SUB TOPICS	ASSESSMENT
<b>MODULE ONE</b> 16 Weeks	<b>Engineering:</b> <ul style="list-style-type: none"> <li>• Fitting and machining</li> <li>• Sheet metal working</li> <li>• Welding and fabrication</li> </ul>	<b>Industry practices</b> <ul style="list-style-type: none"> <li>• C1.1 Manufacturing enterprises</li> <li>• C1.2 Workplace health and safety</li> <li>• C1.3 Personal and interpersonal skills</li> <li>• C1.4 Product quality</li> </ul> <b>Production processes</b> <ul style="list-style-type: none"> <li>• C2.1 Specifications</li> <li>• C2.2 Tools</li> <li>• C2.3 Materials</li> </ul>	<b>Practical demonstration (Assess #1)</b> Group exercises (e.g. nut cracker; tray for tool box etc.) in fitting, mechanical service, metal and composites machining; heat treatment, brazing and welding (MMAW); light and heavy metal fabrication; keeping and maintaining a log book journal exploring Industry practices and Production processes, related Subject/ Core requirements.  <b>Project (Assess#2)</b> Individually Year 11 students Manufacture and apply finish to a product from specifications (e.g. Tool box) to fulfil customer service needs. Analyse and assess Industry practices and production processes with reference to physical and human resources, capabilities, time, cost, WH&S (Risk Assessment) etc.
<b>MODULE TWO</b> 15 weeks	<b>Furnishing:</b> <ul style="list-style-type: none"> <li>• Cabinet-making</li> <li>• Furniture finishing</li> </ul>	<b>Industry practices</b> <ul style="list-style-type: none"> <li>• C1.1 Manufacturing enterprises</li> <li>• C1.2 Workplace health and safety</li> <li>• C1.3 Personal and interpersonal Skills</li> <li>• C1.4 Product quality</li> </ul> <b>Production processes</b> <ul style="list-style-type: none"> <li>• C2.1 Specifications</li> <li>• C2.2 Tools</li> <li>• C2.3 Materials</li> </ul>	<b>Practical demonstration (Assess #3)</b> Group exercises (e.g. crate/ box joints – indoor application) in framing and carcass construction, machining of wood products, re-claiming timber and allied material, cutting, shaping and joining, surface preparation and finishing, manual assembly; keeping and maintaining a log book journal exploring Industry practices and Production processes, related Subject/ Core requirements.  <b>Project (Assess#4)</b> Individually Year 11 students manufacture and apply finish to a product from specifications (e.g. portable stool/ seat) using a combination of natural and manufactured materials to fulfil customer service needs. Analyse and assess Industry practices and Production processes with reference to physical and human resources, capabilities, time, cost, WH&S (Risk Assessment) etc.