

| | | | Engineering St | udies (Applied) | | | |
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| | | | Learning & Assessn | nent Overview 2021 | | | |
| Year 11 | | | | Year 12 | | | |
| ESK Unit 1 The engineering industry | | ESK Unit 2 Communication and teamwork in engineering enterprises | | ESK Unit 3 Welding and fabrication enterprise | | ESK Unit 4 Working cooperatively in engineering workplaces | |
| The unit introduces students to th production processes associated the engineering industry includin Students will individually manufa- specified on a basic drawing. The cantilevers, hinged lids and resista required to keep an individual and sketches and photographs. They examination, with both theory an OH&S, sheet metal and welding si | he industry practices and with manufacturing enterprises in g safety and product quality. cture a folding tool box as toolbox will incorporate ance welding. Students will be notated production journal with will also undertake an d practical components, on afety and measurements. | This unit introduces students to th with tradespeople who work in te procedures to create quality prod will undertake Oxy Acetylene welk various types of welds and then th Angle brackets from a detailed wo members, students will then mam specifications using a simple prod the use of the scrollwork and ring to be Oxy welded together. Stude annotated production journal wit procedure lists, sketches and/or p | he industry practices associated ams using production skills and ucts from specifications. Students ding exercises to demonstrate he assembly/manufacture of two orking drawing. As team ufacture a Hose Reel from uction line. Students will have rolling machine. The hose reel is ents will keep an individual h weekly log, costing and hotographs. | This unit builds on prior learning o production processes used in the Students will individually manufac predefined specifications. They wi annotated production journal wit procedure lists, sketches and/or p manufacture a Nut Cracker to sper welds using MMAW and GMAW. | of industry practices and safe creation of quality products. cture a Machine Vice from ill maintain an individual h weekly log, costing and hotographs. Students will also cification with various types of | This unit teaches students to be e on the safe and efficient creation work in teams to manufacture a P specifications. The students will h MIG welders as well as MMAW an equipment. They will maintain an journal with weekly log, costing a and/or photographs. Students wi Sconce with a combination of scr machine, craft equipment and we | effective team members focused of quality products. Students will Portable BBQ to predefined have the use of large and small d Oxy-acetylene welding individual annotated production and procedure lists, sketches II also manufacture a Candle Wall ollwork using ring rolling elding using GMAW and OAW. |
| Unit Duration | | Unit Duration | | Unit Duration | | Unit Duration | |
| Yr 11 Weeks 1 - 16 | | Yr 11 Weeks 17 - 32 | | Yr 12 Weeks 1 - 13 | | Yr 12 Weeks 14 - 33 | |
| (16 weeks) | | (16 weeks) | | | | | |
| Assessment Task/s | | Assessment Task/s | | Assessment Task/s | | Assessment Task/s | |
| Examination Examination Conditions: 60-90 minutes, short responses 50-150 words per item, supervised in class | Cantilever Toolbox Project Conditions: 45 hours, product component supervised in class, multimodal component 6 A4 pages or equivalent | Welding Practical demonstration - two Angle brackets <i>Conditions:</i> 15 hours, supervised in class | Hose Reel Project Conditions: 40 hours, product component supervised in class, multimodal component 6 A4 pages or equivalent | Conditions: 45 hours, product component supervised in class, multimodal component 8 A4 pages or equivalent | Conditions: 10 hours, supervised in class | Portable BBQ Project Conditions: 45 hours, product component supervised in class, multimodal component 8 A4 pages or equivalent | Practical demonstration - Candle Wall Sconce Conditions: 10 hours, supervised in class |
| <i>lssued:</i> Week 5 <i>Due:</i> Week 5 | <i>Issued:</i> Week 6 <i>Due:</i> Cutting & Procedure List Week 6 Finished project & completec Log Book Week 16 | i <i>Issued:</i> Week 17 t <i>Due:</i> Week 20 i | <i>Issued:</i> Week 21 <i>Due:</i> Cutting & Procedure List Week 21 Finished project & completed Log Book Week 33 | <i>Issued:</i> Week 1 <i>Due:</i> Cutting & Procedure List Week 2 Finished project & completed Log Book Week 10 | <i>lssued:</i> Week 11 <i>Due:</i> Week 13 | <i>Issued:</i> Week 14 <i>Due:</i> Cutting & Procedure List Week 16 Finished project & completed Log Book Week 29 | <i>Issued:</i> Week 30 <i>Due:</i> Week 33 |