### Sample assessment outline

**Materials Design and Technology – General Year 12**

**Unit 3 and Unit 4**

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<thead>
<tr>
<th>Assessment type and weighting</th>
<th>Assessment task weighting</th>
<th>When/duration</th>
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| **Design** 25% | 5% | Semester 1 Week 1–2 | **Task 1:** Design project one  
Investigate and develop a design portfolio to include:  
- statement of intent  
- needs, values and beliefs of the designer/developer  
- sources of design inspiration  
- performance criteria for products  
- application of design fundamentals and factors affecting design |
| | 5% | Semester 1 Week 5–7 | **Task 3:** Design project one – devise a solution; through concept drawings, working drawings, patterns or templates. Present:  
- final drawn proposal  
- drawing of proposed solution – rendered pictorial 3D drawing, either CAD or hand-drawn  
- production plan, materials lists and costing/ordering in the design portfolio |
| | 5% | Semester 1 Week 15–16 | **Task 7:** Design project two – apply a design process  
Determine design brief  
Investigate and develop ideas from:  
- needs, values and beliefs  
- performance criteria  
- historical, social and cultural sources of design inspiration  
- specific design characteristics/features of; products, designers and industries  
- application of design fundamentals and factors affecting design |
| | 10% | Semester 2 Week 3–5 | **Task 9:** Devise a solution to project two – developing a solution through concept drawings, working drawings, patterns or templates. Present:  
- annotated pictorial drawings of ideas to a final drawn proposal including:  
  - annotated orthographic concept drawings, either CAD or hand-drawn  
  - working drawings – detailed orthogonal drawings  
  - lists of materials, parts and components  
  - production plan on a timeline |
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| Production 50%               | 5%                        | Semester 1 Week 7–8 | **Task 4:** Pre-production skills  
Develop production skills; apply safety and practice task/s to develop practical hand and machine skills; modelling, prototype or toile | 50% |
|                              | 20%                       | Semester 1 Week 9–14 | **Task 5:** Production of proposed project one – manufacture of proposed product; using prepared production plan, materials and available equipment; record progress in design portfolio | 20% |
|                              | 25%                       | Semester 2 Week 6–11 | **Task 10:** Production of proposed project two – manufacture of proposed product; using prepared production plan, materials and available equipment; record progress in design portfolio | 25% |
| Response 10%                | 3%                        | Semester 1 Week 3–4 | **Task 2:** Investigate materials and production methods. Research materials and processes suitable for the development of a solution, and report on:  
• nature and properties of materials  
• materials in context | 3% |
|                              | 2%                        | Semester 1 Week 14 | **Task 6:** Evaluation of completed project one  
• complete a written report on, and provide photographs of, the completed product | 2% |
|                              | 3%                        | Semester 2 Week 1–2 | **Task 8:** Investigate materials suitable for the development of a solution, and report on:  
• nature and properties of materials  
• recycling methods and processes | 3% |
|                              | 2%                        | Semester 2 Week 11–12 | **Task 11:** Evaluation of completed project two  
• complete a written report on, and provide photographs of, the completed product | 2% |
| Externally set task 15%     | 15%                       | Semester 1 Week 13 | **Externally set task**  
A written task or item or set of items of one hour duration developed by the School Curriculum and Standards Authority based on the content from Unit 3 and administered by the school. | 15% |
| **Total**                   |                           |                 |                 | **100%** |