**Sample Assessment Outline**

Engineering Studies

ATAR Year 11

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Sample assessment outline

Engineering Studies – ATAR Year 11

Unit 1 and Unit 2

Semester 1

| **Assessment type and weighting** | **Assessment task weighting**  | **When/duration** | **Assessment task** |
| --- | --- | --- | --- |
| Design30% | 5% | Term 1Weeks 1–2 | Introduction to unit and course outline**Task 1:** **Design project one**Using a design process* determine design brief
* investigate and develop ideas
 |
| 10% | Term 1Weeks 3–5 | **Task 2: Investigate materials and components** * research materials and components suitable for the development of a solution
* research forms of energy
* determine form of energy suitable for the project
 |
| 10% | Term 1Weeks 6–7 | **Task 3: Developing a solution for project one*** through annotated pictorial drawings of ideas to a final drawn proposal
* calculations to estimate design function
 |
| 5% | Term 2Week 6 | **Task 7: Evaluation of completed project one**Written report on and photographs of completed product |
| Production40% | 5% | Term 1Weeks 8–10 | **Task 4:** **Pre-production*** working drawings – detailed orthogonal drawings
* lists of materials, parts and components
* develop production plan on a timeline
 |
| 5% | **Task 5: Pre-production skills**Develop production skills; apply safety and practice task/s to develop practical hand and machine skills. Modelling or prototype.  |
| 30% | Term 2 Weeks 1–5 | **Task 6:** **Manufacture of proposed project one**Using prepared production plan, materials and available equipment; record of progress. |
| Examination30% | 30% | Term 2Examinationweeks 7–8 | **Task 8:** **Semester 1 examination**– of approximately 2 hours, using a modified examination design brief from the Year 12 syllabus |
| Total | 100% |  |  |

Semester 2

| **Assessment type and weighting** | **Assessment task weighting**  | **When/duration** | **Assessment task** |
| --- | --- | --- | --- |
| Design30% | 5% | Term 3Weeks 1–3 | Re-introduction to design process, and development of a design folio**Task 9:** **Design project two** design process* determine design brief
* investigate and develop ideas
 |
| 10% | Term 3Weeks 4–6 | **Task 10:** **Investigate materials and components** * research materials and components suitable for the development of a solution
* research efficiency of selected forms of energy
* research obsolescence
 |
| 10% | Term 3Weeks 7–8 | **Task 11:** **Developing a solution for project two*** through annotated pictorial drawings of ideas to a final drawn proposal
* annotated orthographic concept drawings either CAD or hand drawn
* calculations to estimate design function
 |
| 5% | Term 4Week 6 | **Task 15: Evaluation of completed project two;** written report on and photographs of completed product. |
| Production40% | 10% | Term 3Weeks 9–10 | **Task 12:** **Pre-production*** working drawings – detailed orthogonal drawings
* lists of materials, parts and components
* develop production plan on a timeline
 |
| Term 4Week 1 | **Task 13: Pre-production skills**Develop production skills; apply safety and practice task/s to develop practical hand and machine skills. Modelling or prototype.  |
| 30% | Term 4 Weeks 2–4 | **Task 14: Manufacture of proposed project two**Using prepared production plan, materials and available equipment; record progress in design folio. |
| Examination30% | 30% | Term 4Examinationweeks 5–6 | **Task 16: Semester 2 examination** *–* of approximately 2 hours, using a modified examination design brief from the Year 12 syllabus |
| Total | 100% |  |  |