**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** |
| --- | --- | --- | --- |
| Design  30% | 5% | Term 1  Weeks 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 1  Weeks 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 1  Weeks 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 2  Week 6 | **Task 7: Evaluation of completed project one**  Written report on and photographs of completed product |
| Production  40% | 5% | Term 1  Weeks 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. |
| Examination  30% | 30% | Term 2  Examination  weeks 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** |
| --- | --- | --- | --- |
| Design  30% | 5% | Term 3  Weeks 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 3  Weeks 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 3  Weeks 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 4  Week 6 | **Task 15: Evaluation of completed project two;** written report on and photographs of completed product. |
| Production  40% | 10% | Term 3  Weeks 9–10 | **Task 12:** **Pre-production**   * working drawings – detailed orthogonal drawings * lists of materials, parts and components * develop production plan on a timeline |
| Term 4  Week 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. |
| Examination  30% | 30% | Term 4  Examination  weeks 5–6 | **Task 16: Semester 2 examination** *–* of approximately 2 hours, using a modified examination design brief from the Year 12 syllabus |
| Total | 100% |  |  |