



SAMPLE ASSESSMENT OUTLINE

**ENGINEERING STUDIES
ATAR YEAR 11**

FOR TEACHING IN 2024

Acknowledgement of Country

Kaya. The School Curriculum and Standards Authority (the Authority) acknowledges that our offices are on Whadjuk Noongar boodjar and that we deliver our services on the country of many traditional custodians and language groups throughout Western Australia. The Authority acknowledges the traditional custodians throughout Western Australia and their continuing connection to land, waters and community. We offer our respect to Elders past and present.

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2024 Sample assessment outline
 Engineering Studies – ATAR Year 11
 Unit 1 and Unit 2

Assessment type and weighting	Assessment task weighting	When/ duration	Assessment task
Design 30%	5%	Term 1 Weeks 1–2	<p>Introduction to unit and course outline</p> <p>Task 1 Part A: Design project (<i>include title or theme</i>)</p> <p>Using a design process</p> <ul style="list-style-type: none"> Develop the first part of a design folio develop a design brief and investigate existing products, materials and ideas
	5%	Term 1 Weeks 3–7	<p>Task 2 Part A: Investigate energy, power and work</p> <ul style="list-style-type: none"> research, list, define and compare forms of energy list and outline advantages and disadvantages for society, the environment and industry of obtaining and using renewable and non-renewable forms of energy <p>Task 2 Part B: Investigate and understand the application of fundamental engineering calculations and mechanisms</p> <ul style="list-style-type: none"> fundamental engineering calculations including content from: dimensional, perimeter, surface area, volume, use units of measurement and prefix, symbols and factors
	10%	Term 2 Weeks 1–6	<p>Task 1 Part B: Developing a solution for the project</p> <ul style="list-style-type: none"> through annotated pictorial drawings of ideas to a final drawn proposal calculations to estimate design parts, and costing <p>Task 1 Part C: Evaluation of the development of the project</p> <ul style="list-style-type: none"> report on drawing, and plans for production of project meeting the requirements of the design
	5%	Term 3 Week 4	<p>Task 3: Obsolescence assignment</p> <ul style="list-style-type: none"> define and compare forms of obsolescence – technical, functional, and planned describe advantages and disadvantages for society, industry and the environment from different forms of obsolescence

Assessment type and weighting	Assessment task weighting	When/ duration	Assessment task
	5%	Term 4 Week 6	<p>Task 7: Evaluation of completed project – written report on and photographs of completed product</p> <ul style="list-style-type: none"> evaluate the development of the project <ul style="list-style-type: none"> meeting the requirements of the design safety, function fit and finish modifications and changes to the design during production
Production 40%	10%	Term 2 Weeks 1–5	<p>Task 5: Pre-production</p> <ul style="list-style-type: none"> lists of materials, parts and components develop production plan on a timeline develop production skills; apply safety and practice task/s to develop practical hand and machine skills
	30%	Term 3 Weeks 8–10 Term 4 Weeks 1–5	<p>Task 6: Manufacture of proposed project</p> <ul style="list-style-type: none"> using prepared production plan, materials and available equipment, construct a prototype or working model and; record progress in design folio use project management skills for timely development and testing of the project construct prototype or working model by selecting and using appropriate tools and machines, and by following safe work practices test the prototype or working model for correct function and document using checklists and test data
Examination 30%	15%	Term 2 Examination week	<p>Task 4: Semester 1 examination – of approximately 2 hours, using a modified examination design brief from the Year 12 syllabus</p>
	15%	Term 4 Examination week	<p>Task 8: Semester 2 examination – of approximately 2 hours, using a modified examination design brief from the Year 12 syllabus</p>
Total	100%		