JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Industrial Arts **Course: Engineering Studies** **Year: 12**

Assessment Task: Trial HSC Examination

Assessment Weighting: 30% **Due: Term** 3 **Week** 3/4 **Date:** Refer to trial exam period

Task Type: Hand in Task ☐ **In Class Task** ☒ **Practical Task** ☐

Outcomes assessed (NESA)
H1.2 differentiates between the properties and structure of materials and justifies the selection of materials in engineering applications . **H3.1 demonstrates proficiency in the use of mathematical, scientific and graphical methods to analyse and solve problems of engineering practice.** **H3.3 develops and uses specialised techniques in the application of graphics as a communication tool** **H4.2 applies knowledge of history and technological change to engineering-based problems** **H4.3 applies understanding of social, environmental and cultural implications of technological change in engineering to the analysis of specific engineering problems**
Task Description/Overview
Engineering Trial HSC (3hrs + 5mins reading)
Detailed Assessment Task Description
Trial Examination- Modules covered: • Civil Structures • Personal & Public Transport • Aeronautical Engineering • Telecommunication Engineering Aspects examined in each module include: - Historical developments - Engineering mechanics - Engineering materials - Electrical/electronics - Communication Written Exam - Multiple Choice section – 20 marks - Short answer section – 80 marks Total = 100 marks

Test/Examination Structure	
Section Description	**Marks Available**
Multiple Choice	20
Short Answer	80
Total Marks for this task	**100**

Assessment Criteria		
Grade	**Description**	**Mark Range**
Outstanding (O)	Demonstrates outstanding skills in analysis and problem solving in engineering. Outstanding ability in determining suitable properties, uses and applications of materials, components and processes in engineering.	**90-100**
High (H)	Demonstrates high ability in analysing and problem solving in engineering. A high ability in determining suitable properties, uses and applications of materials, components and processes in engineering.	**80-89**
Sound (S)	Demonstrates a sound ability in analysing and problem solving in engineering. Has reasonable ability in determining suitable properties, uses and applications of materials, components and processes in engineering.	**60-79**
Basic (B)	Demonstrates a basic ability in analysing and problem solving in engineering. A basic ability in determining suitable properties, uses and applications of materials, components and processes in engineering.	**30-59**
Limited (L)	Demonstrates a limited ability in analysing and problem solving in engineering. Struggles to determine suitable properties, uses and applications of materials, components and processes in engineering.	**0-29**

Satisfactory completion of courses

A course has been satisfactorily completed, when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes