

Year 12 2024
INDUSTRIAL TECHNOLOGY
Mr Van Doesburg



Task Number: 3
Weight: 30%

Notification Date: 21/06/2024
Due Date: 25/07/2024 to Mr Van Doesburg by 3.20pm

OUTCOMES ASSESSED

H2.1 demonstrates proficiency in the use of safe working practices and workshop equipment maintenance techniques
H3.3 applies and justifies design principles through the production of a Major Project
H4.1 demonstrates competency in a range of practical skills appropriate to the Major Project
H5.1 selects and uses communication and information processing skills
H5.2 examines and applies appropriate documentation techniques to project management
H6.2 applies the principles of quality and quality control

TASK DESCRIPTION

Project development and management report

TASK INSTRUCTIONS

Students are to continue completing work on their major design folio and project. When completed the student should have addressed all the headings on the next page and show that they are addressing the outcomes listed above.

- The folio should be presented in an A4 or A3 folder.
- A clear and easily read font equivalent in size to 12-point Times New Roman should be used.
- Folio pages should be numbered with a contents page.
- If a computer problem occurs the assessment must still be submitted on the due date. It must be provided on disk / USB flash drive or via email. If the original has been 'lost' evidence of research and a draft copy must be submitted.
- Assessments must be your own work.

FOLIO COMPONENTS

The parts of the folio listed below are required for this task and will form part of your Major Project folio.

Design, Management and Communication

- Statement of intent
- Research Materials/resources
- Research Processes/Technologies
- **Selection and justification of Materials, Resources, Processes & Technologies**
- **Development of Ideas inc. Sketching and idea generation**
- Prototyping, modelling and testing
- **Production and working drawings**
- Evidence of project management including a record of the production of the project
- Timeline plan – projected order of production including estimation and evaluation of time allocation
- Finance plan – projected cost and an analysis of actual costs of materials and services (if applicable)
- Evidence of OHS and safe working practices
- **Appropriateness of design and/or design modification**
- Evidence of a range of presentation skills and techniques
- Evidence of a range of ICT skills
- **Ongoing evaluation of the Project and its relationship to the statement of intent, research and planning**

Production

- **Quality of the product**
- **Evidence of a range of skills**
- Use of appropriate materials, components, processes and technologies
- Links between planning and production
- **Evidence of solutions to problems in production**

Teacher's signature: _____

Head Teacher Admin's signature _____

Deputy Principal's signature _____

Selection & Justification of components, processes, technologies & resources – outcomes H3.3, H5.1, H5.2	
Justifies the selection of appropriate materials, processes, technologies and resources	12 – 14
Describes the selection of appropriate materials, processes, technologies and resources	9 – 11
Identifies some appropriate material, processes, technologies and resources	6 – 8
Minimal reference to appropriate materials, processes, technologies and resources	3 – 5
Minimal reference to materials, processes, technologies and resources	1 – 2
Not submitted or does not meet minimum requirements	0
Development of Ideas – outcomes H3.3, H5.1, H5.2	
Demonstrates very high level skills in sketching and idea generation, prototyping, modelling and testing and in developing production and working drawings (as appropriate)	12 – 14
Demonstrates substantial skills in sketching and idea generation, prototyping, modelling and testing and in developing production and working drawings (as appropriate)	9 – 11
Demonstrates moderate skills in sketching and idea generation, prototyping, modelling and testing, in developing production and working drawing (an appropriate)	6 – 8
Demonstrates basic skills in limited areas of sketching and idea generation, prototyping, modelling and testing, and in developing production and working drawings (as appropriate)	3 – 5
Sketching, idea generation, prototyping, modelling and testing production and working drawings either not present or in elementary form (as appropriate)	1 – 2
Not submitted or does not meet minimum requirements	0
Appropriate design &/or design modification – outcomes H3.3, H5.1, H5.2	
Analyses and evaluates the relationship between design and modifications (if applicable), materials, components and processes in the development of the major project	12 – 14
Explains links between the design and modifications (if applicable), material, components and processes in the development of the major project	9 – 11
Lists some details of the design and modification (if applicable), materials, components and processes in the development of the major project	6 – 8
Provides has details of the design, materials, components and processes in the development of the major project	3 – 5
Little detail of the design, materials, components or processes in the development of the major project	1 – 2
Not submitted or does not meet minimum requirements	0
Evaluation of the MP and its relationship to the statement of Intent, research & development – outcomes H3.3, H5.1, H5.2	
Provides critical evaluation of the major project, including in relation to the statement of intent, research and development	12 – 14
Provides evaluation of the major project and discusses the major project in relation to the statement of intent, research and development	9 – 11
Provides ongoing documentation of the major project, including some reference to the statement of intent, research and development	6 – 8
Provides minimal ongoing documentation of the major project, with basic reference to the statement of intent, research and development	3 – 5
Provides little or no ongoing documentation of the major project, no reference to the statement of intent, research or development	1 – 2
Not submitted or does not meet minimum requirements	0
Practical Project	
Quality of the Product – outcomes H2.1, 4.1, H5.2	
Demonstrates very high quality in all aspects of the major project production	12 – 14
Demonstrates high quality in most aspect of the major project production	9 – 11
Demonstrates substantial quality in most aspects of the major project production	6 – 8
Demonstrates basic quality in most aspects of the major project production	3 – 5
Demonstrates poor quality in all aspects of the major project production	1 – 2
Not submitted or does not meet minimum requirements	0

Evidence of a range of skills – outcomes H2.1, 4.1, H5.2	
A highly demanding project, with evidence of high quality in the application of a wide range of skills and techniques in the planning and production of the major project	12 – 14
A project of moderate or substantial difficulty with evidence of high quality in the application of a range of skills and techniques in the planning and production of the major project	9 – 11
A project of moderate or substantial difficulty, with evidence of inconsistent quality in the application of skills and techniques in the planning and production of the major project	6 – 8
A project of minimal difficulty, with evidence of basic quality in the application of skills and techniques in the planning and production of the major project	3 – 5
A project of limited difficulty, with little or no evidence of quality in the application of skills and techniques in the planning and development of the major project	1 – 2
Not submitted or does not meet minimum requirements	0

Evidence of solutions to problems in production – outcomes H2.1, 4.1, H5.2	
Demonstrates and critically evaluates how solutions to problems in major project production were addressed	12 – 14
Demonstrates and explains how solutions to problems in major project production were addressed	9 – 11
Demonstrates solutions to some problems in major project production	6 – 8
Demonstrates limited solutions to basic problems in major project production	3 – 5
Demonstrates inappropriate solutions to some simple problems in major project production	1 – 2
Not submitted or does not meet minimum requirements	0

Task Feedback:

Teacher Signature: _____ Date: _____

Task Mark	Task Rank	Cumulative Rank