Year 11 - Industrial Technology

Practical project Assessment Task 2023

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| **TOPIC**: Practical Project & Portfolio | **MARKS:** /40  |
| **SUBMISSION REQUIREMENTS:** This task has two parts, and each will need to be submitted by Week 7, Term 3 Monday 28th August**.** PART A will need to be submitted on CANVAS and PART B will be assessed in class. | **WEIGHTING:**  40%  |
| **OUTCOMES TO BE ASSESSED:****P2.1 Describes** and **uses** safe working practices and correct workshop equipmentmaintenance techniques**P3.1** Sketches, **produces** and interprets drawings in the production of projects.**P3.3** **Demonstrates** appropriate design principles in the production of projects.**P4.1** **Demonstrates** a range of practical skills in the production of projects.**P4.2** **Demonstrates** competency in using relevant equipment, machinery and processes.**P4.3 Identifies** and **explains** the properties and characteristics of materials/components through the production of projects **P5.2** **Uses** appropriate documentation techniques related to the management of projects. |
| **DIRECTIONAL VERBS:****Identify:** Recognise and name**Explain:** Relate cause and effect; make the relationships between things evident; provide why and/or how**Describe:** give a detailed account in words of.**Produce:** make or manufacture from components or raw materials.**Demonstrate:** give a practical exhibition and explanation of (how a machine, skill, or craft works or is performed).**Uses:** take, hold, or deploy (something) as a means of accomplishing or achieving something; employ. |
| **TASK DESCRIPTION:**Your task is to complete a portfolio in Part A documenting the construction process of the serving tray. In Part B you will be assessed on your practical skills **demonstrated** in the construction of the serving tray.**PART A: Portfolio** You will need to use the appropriate documentation techniques by completing a portfolio that requires you to **demonstrate** the management processes of your major project. This will include the development of a range of sketches to assist with the construction of your serving tray, as well as the integration of photographic evidence that showcases different stages of the construction process.**PART B:** **Practical – Serving Tray**You will be required to use a range of practical skills to design and construct a functional serving tray. Your construction of the serving tray must include **ONE** design modification to the original plans and **demonstrate** the processes you use to maintain a safe work environment. You will **demonstrate** and document appropriate design principles in the development of the project. This will be completed during class time. |
| **ASSESSMENT CRITERIA:****PART A**You will need to develop a portfolio for your serving tray major project, using Microsoft word. You will be provided a scaffold to help you develop your portfolio. In this section of the portfolio, you should complete the following aspects:1. Title page* Name of project
* Student number
* Picture of project.

2. Table of contents**NOTE:** This is where you create a page for the marker to view the page numbers and the information presented on each page. Ensure you include page numbers on each page. 3. Design* Develop a ‘Design brief’ that uses appropriate design principles
* Write a statement of intent that is related to your design principles. This should include the following:
* What is it?
* Why have you chosen to build it?
* Why is it necessary that this project be built?
* State the limitations of the design of the project or principles (e.g., cost, size, weight, transportation, aesthetics, availability of resources)
* Research (e.g., existing ideas, range of materials, types of timbers and possible joinery techniques)
* Use annotated sketches(labelled) and **produces** workshop drawings. For example, Isometric sketches and orthogonal drawings.
* You must photograph your competency and correct processes in using the equipment and machinery safely throughout the production of the serving tray.

4. Management & Communication* You will need to create a material list to assist with the construction of your design (i.e., thickness, width, and length of each component)

**NOTE:** Exemplar table and portfolio will be provided.* You will need to **describe** and photograph evidence of WH&S Safe working practices throughout the construction of the Serving Tray.

5. Production* Provide photographic evidence of the range of skills used in the production of the serving tray
* Provide photographic evidence of any problems that occurred during the construction of the Serving tray and outline the solution.

6. Final Evaluation* Evaluate the serving tray in relation to the original design principles (i.e., relate to statement of intent, possible changes to design principles)

***PART B***You are to construct a functional serving tray. You will be completing the project at school, and this will be an ongoing project throughout the year, this project will commence in Term 2 and students will be working on it during class time. Teacher guidance will be provided and will be available throughout the construction of the project.***Throughout your project construction you must consider the following:**** The usefulness, quality, and appropriateness of the design
* ONE design modification which needs to be justified in the portfolio
* The measurements and quality of production and joints
* The quality of finish at its current stage of production
* Range of woodwork and design skills used
* WH&S Working safely in the workshop
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| **ASSESSMENT MARKING CRITERIA** |
| **PART A – Portfolio (20 Marks)**  | **Mark** | **Grade** |
| **P2.1 Describes** and uses safe working practices and correct workshop equipmentmaintenance techniques**P3.1** Sketches, **produces** and interprets drawings in the production of projects.**P3.3** **Demonstrates** appropriate design principles in the production of projects.**P4.3 Identifies** and explains the properties and characteristics of materials/components through the production of projects **P5.2** **Uses** appropriate documentation techniques related to the management of projects. |  |  |
| The student has provided comprehensive and well-reasoned features and characteristics of the use of safe working practices in the workshop. **P2.1** The student has provided comprehensive range of annotated sketches that successfully produces and interprets the designs of the major work. This includes possible orthographic and isometric drawings. **P3.1**The student has provided comprehensive evidence of the design principles throughout the portfolio by demonstrating coherently in photographic, and written forms the range of tools and equipment used during the development of the project as well as clarifies the intent of the practical project. **P3.3**The student has provided an extensive range of the properties, characteristics and materials used throughout the production of the serving tray **4.3**The student has provided an extensive portfolio that covers all aspects of the construction process with detailed information provided in a professional and well-structured format by using the appropriate documentation techniques. **P5.2** | 17-20 | A |
| The student has provided a thorough features and characteristics of the use of safe working practices in the workshop. **P2.1** The student has provided a high level range of annotated sketches that interprets the designs of the major work. This includes possible orthographic and isometric drawings. **P3.1**The student has provided thorough evidence of the design principles throughout the portfolio by demonstrating a high level in the photographic and written forms of the tools and equipment used during the development of the project. **P3.3**The student has provided a thorough range of the properties, characteristics and materials used throughout the production of the serving tray **4.3**The student has provided a high-quality portfolio that covers most aspects of the construction process with some detailed information provided that is presented professionally and is structured by using the appropriate documentation techniques. **P5.2** | 13-16 | B |
| The student has sketched in general terms the use of safe working practices in the workshop. **P2.1** The student has provided some annotated sketches that showcases the designs of the major project. **P3.1**The student has provided sound evidence of the design principles in the portfolio by demonstrating in the photographic and written forms of the tools and equipment used during the development of the project. **P3.3**The student has provided a range of the properties, characteristics and materials used throughout the production of the serving tray **4.3**The student has provided a portfolio that covers some aspects of the construction process with sound information being provided by using appropriate documentation techniques. **P5.2** | 9-12 | C |
| The student has provided basic response that of the uses of safe working practices in the workshop **P2.1** The student provides basic annotated sketches that attempts to showcase the designs of the major work. **P3.1**The student has provided basic evidence of the design principles in the portfolio by somewhat demonstrating in the photographic and/or written forms of the tools and equipment used during the development of the project. **P3.3**The student has provided a basic range of the properties, characteristics and materials used throughout the production of the serving tray **4.3**The student has provided a portfolio that covers some basic aspects of the construction process. **P5.2** | 5-8 | D |
| The student has provided a limited understanding of the use of safe working practices in the workshop **P2.1** The student has provided limited sketches to showcase the designs of the major project. **P3.1**The student makes limited reference to the design principles throughout the portfolio and may refer to some tools and equipment. **P3.3**The student has provided a limited range of the properties, characteristics and materials used throughout the production of the serving tray **4.3**The student has provided a portfolio that covers some limited aspects of the construction. **P5.2** | 1-4 | E |
| **ASSESSMENT MARKING CRITERIA** |
| **PART B – Project (20 Marks)** | **Mark** | **Grade** |
| **P4.1** **Demonstrates** a range of practical skills in the production of projects.**P4.2 Demonstrates** competency in using relevant equipment, machinery and processes. |  |  |
| The student has demonstrated an extensive range of practical skills that is evident through the well-presented project. This includes the use of a wide range of joinery techniques & ONE design modification that has been presented to an exemplary standard. **P4.1**The student has demonstrated with evidence the outstanding application of practical skills using a range of equipment, machinery and processes in all aspects of the project. This includes maintaining accurate measurements within all sections of the current progress constructed to an outstanding level. **P4.2** | 17-20 | A |
| The student has demonstrated a range of practical skills that is evident through the well-presented project. This includes the use of a range of joinery techniques & ONE design modification that has been completed to a high standard. **P4.1**The student has demonstrated with evidence the application of the range of equipment, machinery and processes that have been used with high competence in all aspects of the project by maintaining accurate measurements with most sections of the current progress constructed to a high level. **P4.2** | 13-16 | B |
| The student has shown sound practical skills that is evident through the well-presented project. This includes the use of some joinery techniques & ONE design modification that has been completed to a high standard. **P4.1**The student has provided some evidence of using a range of equipment, machinery and processes by maintaining accurate measurements with some sections of the current progress constructed to a sound level. **P4.2** | 9-12 | C |
| The student presents basic practical skills that is evident through the presentation of the project. This includes the basic use of joinery techniques & may or may not have ONE design modification that has been completed to a fundamental standard. **P4.1**The student attempts to apply the basic use of equipment, machinery and processes by presenting a project that has some incorrect measurements. **P4.2** | 5-8 | D |
| The student has limited practical skills when presenting their project. Joinery techniques & a design modification have not been presented to an appropriate standard. **P4.1**The student has shown limited to no evidence of the application of equipment, machinery and processes during the construction process. **P4.2** | 1-4 | E |