Subject	Teacher	Date Issued	Due Date
Industrial Technology - Timber	Miss. Woods	26/02/2024	04/04/2024

Type of Task	Theory Assessment
Topic / Module	Structure of trees, properties and characteristics of timber, timber conversion and seasoning and traditional, current and emerging technologies
Weighting	10%
Outcomes	IND5-4 Selects, justifies and uses a range of relevant and associated materials for specific applications. IND5-9 Describes, analyses and uses a range of current, new and emerging technologies and their various applications.
Task Description	**Part 1:** **Investigating Tree Structures** • What does the structure of a tree look like? • How do trees grow? • What are the differences between hardwoods and softwoods? 1. Create a poster with diagrams explaining the three points above. **Investigating Solid Timbers** 2. Select 2 solid timbers from the list below. Research their colouring, defects, density (how heavy something is for its size) strength. Create a table to show this information. • Australian Cypress Pine. • Blackbutt. • Brushbox. • Huon Pine • Ironbark.

	- Jarrah. - Karri. - Spotted Gum. - Tasmanian Blackwood. - Tasmanian Oak. **Investigating Timber Conversion and Seasoning** - Research the differences between air and kiln seasoning. 3. Create a table to compare the advantages and disadvantages of air and kiln seasoning.
	
	==Part 2:==
	
	Exploring Timber Industry Technologies - What are some traditional, current, and emerging technologies that have impacted one manufacturing process in the timber industry? For example: **(traditional)** hand carving ➔ **(current)** router ➔ **(emerging)** CNC router 4. Create a table showing these technologies as:
	   o Traditional: Hand Tools
	   o Current: Machines
	   o Emerging: Advanced Machines - Include the name, image, description and a comparison between the 3: traditional, current and emerging technologies.

How you will be assessed?	See marking rubric attached.
Submission Details	To be completed and submitted to Miss. Woods by 3.05pm on 04/04/2024. You are to submit your word-processed report (Word, Pages, Docs etc.) including a title page. You can submit via email brittani.woods@det.nsw.edu.au or printed hard copy.
Feedback	

Assessment Layout Examples:

Part 1:

2.

Jarrah		Ironbark	
Colour		Colour	
Defects		Defects	
Density		Density	
Strength		Strength	

3.

Air Seasoning		Kiln Seasoning	
Advantages	Disadvantages	Advantages	Disadvantages

Part 2:

4.

	Name	Image	Describe	Comparison
Traditional	Hand Carving			
Current	Router			

Emerging	CNC Router			

Marking Rubric

Criteria	4 Points	3 Points	2 Points	1 Point
Investigating Tree Structures				
Poster Quality and Content	Poster is detailed, includes clear diagrams explaining tree structure, growth, and differences between hardwoods and softwoods.	Poster includes diagrams explaining tree structure, growth, and differences between hardwoods and softwoods, but could be more detailed.	Poster includes basic information on tree structure, growth, and differences between hardwoods and softwoods.	Poster is missing key information or is incomplete.
Investigating Solid Timbers				
Timber Selection and Research	Selected and thoroughly researched 2 solid timbers, presenting accurate information on colour, defects, density, and strength in a well-organised table.	Selected and researched 2 solid timbers, presenting information on colour, defects, density, and strength in a table with some inaccuracies or lack of organisation.	Selected 2 solid timbers but information on colour, defects, density, and strength is limited or inaccurately presented.	Did not select 2 solid timbers or information provided is incomplete.
Investigating Timber Seasoning				
Comparison of Seasoning Methods	Detailed table comparing advantages and disadvantages of air and kiln seasoning methods with clear understanding of the differences.	Table comparing advantages and disadvantages of air and kiln seasoning methods, but lacks some detail or clarity.	Basic table comparing advantages and disadvantages of air and kiln seasoning methods with limited detail.	Missing table or inaccurate information on seasoning methods.
Exploring Timber Industry Technologies				
Understanding of Manufacturing Technologies	Clear presentation of traditional, current, and emerging technologies impacting the timber industry	Presentation of traditional, current, and emerging technologies impacting timber industry, but	Some understanding of technologies impacting timber industry, but missing details or accurate examples.	Little or no understanding of traditional, current, and emerging technologies in the timber industry.

Criteria	4 Points	3 Points	2 Points	1 Point
	manufacturing process, with accurate examples provided.	examples may lack clarity or accuracy.		