

Year 11 2024
INDUSTRIAL TECHNOLOGY: TIMBER
Mr Van Doesburg



Task Number: 2
Weight: 20%

Notification Date: 20/05/2024
Due Date: 26/06/2024
to Mr Van Doesburg by 3.20pm

OUTCOMES ASSESSED

P1.1 describes the organisation and management of an individual business within the focus area industry
P1.2 identifies appropriate equipment, production and manufacturing techniques, including new and developing technologies
P5.1 uses communication and information processing skills
P7.1 identifies the impact of one related industry on the social and physical environment
P7.2 identifies the impact of existing, new and emerging technologies of one related industry on society and the environment

TASK DESCRIPTION

INDUSTRY STUDY HYNE TIMBER

Submit an **Industry Study Report**

- Answer ALL the questions on the attached sheet.
- The completed report (including any photo evidence) is to be submitted as a hard copy.

TASK INSTRUCTIONS

- 1) A series of "Introduction to Timber Industry" lessons will be completed to aid in task completion and understanding of the Timber Industry and the requirements of the task.
- 2) Students are responsible for completing the **written report – DUE FRIDAY 24th June 2024.**
 - Some information required will be obtained during the timber industry lessons.
 - Additional information may need to be researched to enable all questions to be completed.
 - A hard copy of the report must be submitted.

Teacher's signature: _____

Head Admin's signature _____

Deputy Principal's signature _____

Criteria for assessment and marking/rubric:

<ul style="list-style-type: none"> ● All questions have been answered thoroughly and demonstrate an extensive knowledge of the company. ● An appropriate timber industry business has been selected, with its history explored in depth, and business structure accurately described. ● The business's core products are identified, and the manufacture process is accurately documented. ● Issues relating to the business's sustainability are explored in both positive and negative impacts. More than 3 positive and 3 negative impacts on the environment are included. 	<p>18 -20</p>
<ul style="list-style-type: none"> ● All questions have been answered at a sound standard and demonstrate a sound understanding of the company. ● An appropriate timber industry business has been selected, with its history explored in depth, and business structure accurately described. ● The business's core products are identified, and the manufacture process is documented. ● Issues relating to the business's sustainability are explored in both positive and negative impacts. Less than 3 positive and 3 negative impacts on the environment are included. 	<p>14-17</p>
<ul style="list-style-type: none"> ● 70% of questions have been answered at a sound standard. ● An appropriate timber industry business has been selected, with its history explored in depth, and business structure accurately described. ● One of the business's products is identified, with part of the manufacture process documented. ● Issues relating to the business's sustainability are explored in both positive and negative impacts. There is only 1 impact identified for each side. 	<p>10-13</p>
<ul style="list-style-type: none"> ● 50% of questions have been answered. ● An appropriate timber industry business has been selected, with some exploration of its history explored in depth, and attempts to describe business structure. ● One business's product is identified, with the manufacture process incorrectly documented. ● Issues relating to the business's sustainability are explored in one of either positive or negative impacts. Only 1 impact has been identified. 	<p>6-9</p>
<ul style="list-style-type: none"> ● Less than 50% of questions have been answered. ● An appropriate timber industry business has not been selected. ● Attempts to identify one of the business's products. ● Issues relating to the business's sustainability have not been well documented. 	<p>1-5</p>
<ul style="list-style-type: none"> ● Non-attempt or not meeting minimum criteria. 	<p>0</p>

Marking Criteria:

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Task Feedback:

Teacher Signature: _____

Date: _____

Task Mark	Task Rank	Cumulative Rank



Industry Study

www.hyne.com.au

Hyne Timber is one of Australia's largest producers of sawn timber products, a leader in timber preservative treatments and an iconic supplier to the Australian construction industry.



Use the Hyne Timber website, linked documents and virtual mill tour to answer the questions about the company's Background, Structural, Technical, Environmental, Sociological, Personnel and WHS factors.

BACKGROUND

<https://www.hyne.com.au/publicreport>

<https://www.hyne.com.au/careers/our-people>

<https://www.hyne.com.au/about/our-history>

1. What is the company's business/trading name?
2. What is the company's legal name?
3. Where is the company's head office?
4. When was the company founded?
5. Who was the company's founder?

STRUCTURAL FACTORS

<https://www.hyne.com.au/careers/our-people>

6. Is Hyne Timber a private or public company?
7. How many people does the company employ?
8. How many sites does the company have?
9. List the different components of the Organisation Structure of the company under the following headings:
 - Customers
 - Production
 - Engineering Innovation and Technology
 - Finance & Business Services

TECHNICAL FACTORS

Take the HYNE Virtual Mill tour: <https://tour.hyne.com.au/>

10. What are the 8 stages of Hyne Timber production?
11. What type of seedlings are shown in the mill tour?
12. How long does it take for the company's trees to fully grow?
13. How many truck loads of harvested logs and stems arrive to the mill on any given day?
14. What is 'The Log Merchandiser'?
15. List the technology/machines involved in the 'Green Mill' stage:
16. What is the Equilibrium Moisture Content of kiln dried timber at Hyne?
17. At what temperature is the air inside the kilns?
18. How long is timber left in the kiln for?
19. How many timber lengths are output per day?
20. What does the high speed plane do?
21. How is the timber graded in the dry mill and what gives trimming instructions?
22. What makes the blue and red colours in treated timber?

ENVIRONMENTAL FACTORS

<https://www.hyne.com.au/why-timber/environmental-product-declaration>

<https://www.hyne.com.au/EPD> pages 1 - 5

<https://www.hyne.com.au/pirmp>

23. What is an Environmental Product Declaration (EPD)?
24. What does the company's EPD include?
25. What are the company's 5 Sustainable Development aims?
26. What 3 standards are Hyne's seasoned softwoods produced in accordance with?
27. Hyne sawmill is one of how many softwood sawmills in NSW?
28. What are the typical species of seasoned sawn softwood available?

29. What are the major environmental hazards outlined in the company's Pollution Incident Response management Plan (PIRMP)?
30. What are the safety equipment and pre-emptive actions taken?
31. What is Chain of Custody certification?

SOCIOLOGICAL FACTORS

<https://www.hyne.com.au/why-timber/our-expertise>

32. What is the company's vision?
33. What strategic partnerships does the company have in place?
34. What is Hyne Timber Design 7.5 and who could it be used by?

PERSONNEL FACTORS

<https://www.hyne.com.au/publicreport>

35. List the different occupational categories at Hyne Timber (managers and non-managers) AND the total employees within each category:
36. How many employees were promoted in the year between 1 April 2019 to 31 March 2020?
37. What is the gender composition of the workforce at the company?
38. How does the company consult with employees on issues concerning gender equality at the company?
39. When is training for managers provided on sex-based harassment and discrimination prevention?
40. List the employee organisations (Unions) that workers at Hyne timber have access to:

WHS FACTORS

<https://www.hyne.com.au/codeofconduct>

41. What are the 6 'Hyne Timber Values'?
42. Summarise each of the company's 12 Safety Rules:
43. In your own words, explain the various WHS factors that would contribute to a safe working environment at Hyne Timber:

GENERAL INDUSTRY:

<https://www.hyne.com.au/why-timber/environmental-product-declaration>

<https://www.hyne.com.au/why-timber/carbon-emissions>

44. What % of Gross Domestic Product (GDP) does Australian forestry and forest product manufacturing contribute to the Australian economy?
45. How many cubic meters of sawn softwood timber products were produced in 2015-2016?
46. What are the end uses of sawn kiln-dried softwood?
47. What are the end uses of dressed kiln-dried softwood?
48. How many people are estimated to have been employed in forestry, logging and wood manufacturing in 2015-16?
49. How much of the total greenhouse gas emissions in Australia are accounted to carbon emissions from the construction industry?
50. How much could be saved if sustainable timber was used instead of concrete columns, floors and beams, roofs, external and internal walls?