



WELLINGTON HIGH SCHOOL
STAGE 6 INDUSTRIAL TECHNOLOGY – TIMBER PRODUCTS
AND FURNITURE TECHNOLOGIES
ASSESSMENT TASK N⁰¹ NOTIFICATION

Subject	Teacher	Date Issued	Due Date
Year 11 Industrial Technology – Timber Products and Furniture Technologies	Miss. Woods	23/02/2024	05/04/2024

Type of Task	Industry Case Study
Topic / Module	Industry Study
Weighting	30%
Outcomes	<p>P1.1 Describes the organisation and management of an individual business within the focus area industry</p> <p>P1.2 Identifies appropriate equipment, production and manufacturing techniques, including new and developing technologies</p> <p>P5.1 Uses communication and information processing skills</p> <p>P6.2 Identifies and explains the principles of quality and quality control</p> <p>P7.1 Identifies the impact of one related industry on the social and physical environment</p> <p>P7.2 Identifies the impact of existing, new and emerging technologies of one related industry on society and the environment</p>
Task Description	<p>Your task is to complete a word-processed case study on the company - IKEA and relate the content to the Industry Study considerations listed in the assessment criteria (questions on pages 3-4).</p> <p>The report should be at least 3-4 pages (approx. 900-1200 words, size 12 Calibri font) using images and pictures where needed.</p>
How you will be assessed?	See detailed marking rubric on the following page.
Submission Details	<p>To be completed and submitted to Miss. Woods by 3.05pm on 05/04/2024.</p> <p>You are to submit your word-processed report (Word, Pages, Docs etc.) including a title and contents page.</p> <p>You can submit via email brittani.woods@det.nsw.edu.au or printed hard copy.</p>

Feedback	
-----------------	--

Industry Case Study Megafactories - IKEA

Watch the case study documentary and answer the following questions.

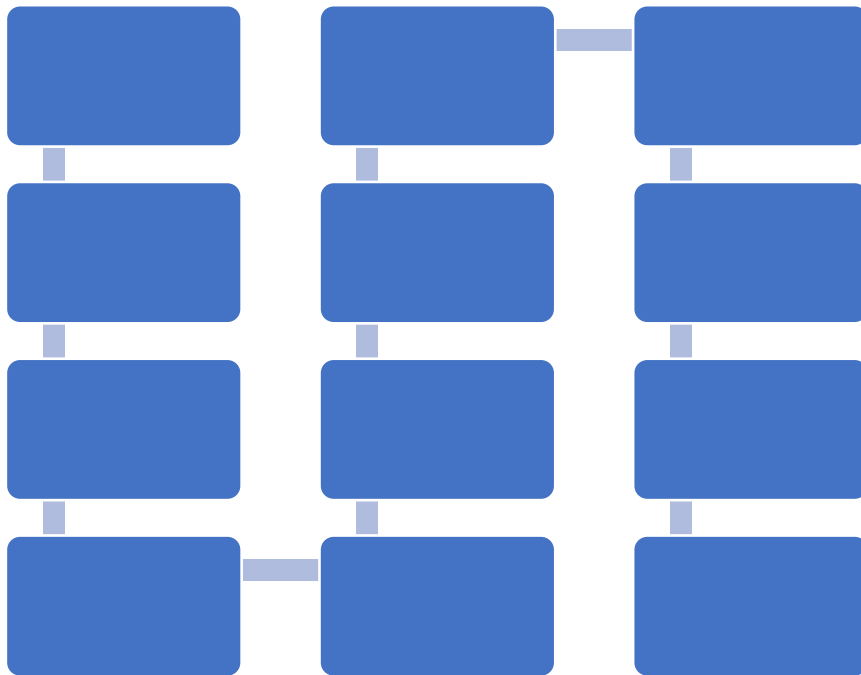
Part 1 – Structural Factors

1. Outline an overview of the IKEA furniture business (Who, How, Where, How was the name made up?, what do they do, etc).
2. How is the business structured? (Insert a flowchart showing the chain of command).
3. Describe the methods used by IKEA for marketing and sales.
4. Describe the processes that need to take place for IKEA to produce their products.
5. Give an example of quality control used by IKEA and explain why quality control is important.
6. Describe the workplace environment and give an example of why the employees like to work there.

Part 2 – Technical Factors

7. What is carried out in the 'Pattern Shop'?
8. Describe the 'rapid prototyping' process.
9. Identify and discuss some of the automated equipment used by IKEA. Include descriptions of how the machines work and how they are of benefit to IKEA's production.
10. Describe the automated processes used to produce the 'Billy' bookcase.
11. List the advantages of 'flat packing' furniture.
12. Describe the technology used in the distribution of IKEA's products around the world.
13. What is the purpose of IKEA's test lab?
14. Describe the 'board on frame' structure of the Lack table.
15. Why is this table constructed this way?
16. Outline the advantages for IKEA of 'self-assembly'.
17. Part of IKEA's marketing strategy is the 'in store experience' it provides for its customers. Outline some of the examples of these 'experiences'.
18. Outline the advantages for IKEA of 'self-assembly'.

19. IKEA have a fully automated particleboard factory. Use a labelled flowchart to show the production steps.



Part 3 – Sociological and Environmental Factors

20. Discuss some of the issues IKEA faces in regard to their location? Include positive and negative effects.
21. Describe some workplace cultures that develop within businesses.
22. Outline where IKEA gets their materials from? Discuss the sustainability of these materials and some possible alternatives.
23. Describe how IKEA manages their waste.
24. What they do about air and noise pollution.
25. How does IKEA's business impact the furniture industry?

Marking Criteria

Part 1 - Structural Factors

Mark	Marking Criteria
13-15	<ul style="list-style-type: none">• Expert analysis of the company structure exhibited through a flow chart indicating every position identified in the program.• Expert explanation of the strategies and ideas used by IKEA for marketing and sales.• Expert discussion of how IKEA structure the production of their products.• Expert explanation of the workplace environment.
10-12	<ul style="list-style-type: none">• High level of ability in analysis of the company structure exhibited through a flow chart indicating almost all position identified in the program.• High level of ability in explanation of the strategies and ideas used by IKEA for marketing and sales.• High level of ability in discussion of how IKEA structure the production of their products.• High level of ability in explaining the workplace environment.
7-9	<ul style="list-style-type: none">• Competent analysis of the company structure exhibited through a flow chart indicating a majority position identified in the program.• Competent explanation of the strategies and ideas used by IKEA for marketing and sales.• Competent discussion of how IKEA structure the production of their products.• Competent explanation of the workplace environment.
4-6	<ul style="list-style-type: none">• Basic analysis of the company structure exhibited through a flow chart indicating some of the positions identified in the program.• Basic explanation of the strategies and ideas used by IKEA for marketing and sales.• Basic discussion of how IKEA structure the production of their products.• Basic explanation of the workplace environment.
0-3	<ul style="list-style-type: none">• Limited analysis of the company structure exhibited through a flow chart indicating minimal position identified in the program.• Limited explanation of the strategies and ideas used by IKEA for marketing and sales.• Limited discussion of how IKEA structure the production of their products.• Limited explanation of the workplace environment.

Part 2 - Technical Factors

Mark	Marking Criteria
13-15	<ul style="list-style-type: none"> Expert analysis and discussion of Technical processes, machinery, tools and equipment. Extensive detail highlighting all processes, tools and equipment that are associated to the Technical Factor section seen during the program.
10-12	<ul style="list-style-type: none"> Highly level of ability in analysis and discussion of Technical processes, machinery, tools and equipment. High level of ability in detailing all processes, tools and equipment that are associated to the Technical Factor section seen during the program.
7-9	<ul style="list-style-type: none"> Competent analysis and discussion of Technical processes, machinery, tools and equipment. Competent detail of processes, tools and equipment that are associated to the Technical Factor section seen during the program.
4-6	<ul style="list-style-type: none"> Basic analysis and discussion of Technical processes, machinery, tools and equipment. Basic detail of processes, tools and equipment that are associated to the Technical Factor section seen during the program.
0-3	<ul style="list-style-type: none"> Limited analysis and discussion of Technical processes, machinery, tools and equipment. Limited detail of processes, tools and equipment that are associated to the Technical Factor section seen during the program.

Part 3 - Sociological and Environmental Factors

Mark	Marking Criteria
9-10	<ul style="list-style-type: none"> Expert Identification and explanation of their sociological impact discussing what is done at this level to improve manufacturing standards and safety while also dealing with job security. Expert analysis and discussion of environmental concerns and the response from IKEA.
7-8	<ul style="list-style-type: none"> Highly level of ability in identification and explanation of their sociological impact discussing what is done at this level to improve manufacturing standards and safety while also dealing with job security. High level of ability in analysing and discussing the environmental concerns and the response from IKEA.
5-6	<ul style="list-style-type: none"> Competent identification and explanation of the sociological impact discussing what is done at this level to improve manufacturing standards and safety while also dealing with job security. Competent analysis and discussion of environmental concerns and the response from IKEA.
3-4	<ul style="list-style-type: none"> Basic identification and explanation of their sociological impact discussing what is done at this level to improve manufacturing standards and safety while also dealing with job security. Basic analysis and discussion of environmental concerns and the response from IKEA.
0-2	<ul style="list-style-type: none"> Limited identification of their sociological impact discussing what is done at this level to improve manufacturing standards and safety while also dealing with job security. Limited discussion of environmental concerns and the response from IKEA.

