Year 11 - Industrial Technology

Industry Study Assessment Task 2024

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| **TOPIC**: Industry Study | **MARKS:** /40  |
| **SUBMISSION REQUIREMENTS:** This task is to be completed at home and submitted on CANVAS on **Friday Week 7, 15th March 2024.**  | **WEIGHTING:**  30%  |
| **OUTCOMES TO BE 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 technologiesP3.2 **Applies** research and problem-solving skillsP5.1 **Uses** communication and information processing skillsP7.2 **Identifies** the impact of existing, new and emerging technologies of one related industry on society and the environment |
| **DIRECTIONAL VERBS:****Describes:** give a detailed account in words of**Identifies:** establish or indicate who or what (someone or something) is.**Applies:** make a formal application or request.**Uses:** take, hold, or deploy (something) as a means of accomplishing or achieving something; employ. |
| **TASK DESCRIPTION:**You are required to write a report about a company that is related to your chosen focus area: Timber Products and Furniture Technologies **using** appropriate word processing software and upload this report onto CANVAS. This report will contain 3 parts. You will be expected to **apply** research and problem solving skills to communicate information about your chosen company. **PART A****Describe** the organisation and management of your chosen company ***(20 marks)*****PART B****Identify** appropriate technical factors i.e., equipment, production and manufactured techniques used by this company, including new and emerging technologies. ***(10 marks)*****PART C****Identify** how an existing, new and/or emerging technology used by this company has impacted society and the environment. ***(10 Marks)*****NOTE:** Some examples of local Sydney businesses are as follows: Hayter’s timber, Parker Furniture, Bunnings warehouse, Naturally timber Furniture, the men’s shed . These are examples; however, you may decide to choose a local business in the area or one you locate yourself. |
| **ASSESSMENT CRITERIA:*****Throughout your report you must consider the following before writing your report:*** * *Visit the business and explain to the owner/manager what you are required to do and ask if he/she would help by answering a few questions about their firm.*
* *Using a Word document, write your report and use the same headings and sub-headings as shown below and the sample report as this is the information prescribed by the industrial technology syllabus*
* *When finished, it would be courteous to send a letter of thanks as well as a copy of your report to the owner/manager.*

**PART A****Describe** the factors that impact on the organisation for example:* *Background information on the organisation*
* **Structural factors** include*: Organisation & management, finance, management product.*
* **Environmental factors** include*: Resources, alternatives & limitations, Recycling & reusing, Pollution.*
* **Sociological factors** include: *Issues relating to the business, workplace cultures, the role of the business.*
* **Personal issues** *(e.g., People employed, how many men and women, list of job roles)*
* **Industrial relations** *(i.e., do employees negotiate their wages with the employer, if so how many and are they successful)*
* **Roles of industry personnel** *(e.g., Equity and Equal Employment Opportunity (EEO) regardless of race, religion, gender, and social status). What does the business to ensure there is equal opportunity for all employees?*
* **Work, Health & Safety (WHS)** (e.g., Signage, WHS principles & requirements, Personal Protective equipment, safe working practices, first aid, materials handling)

**PART B*** **Identify technical factors** include: *Tools/Equipment, Production techniques (i.e., Mechanisation, Specialisation, Mass production & Automation*)

**PART C*** **Identify** a piece of machinery and/or a new method that is used through the incorporation of a new/emerging technology that has changed the way the industry operates (e.g., does this make the product process easier and faster or is this piece of technology more efficient than man made infrastructure and has it caused the loss of jobs in the industry)

**NOTE:** You will be presented with an exemplar prior to commencing this assessment as this will assist you to understand the requirements of this assessment task.  |

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|  **ASSESSMENT MARKING CRITERIA** |
| **PART A - Outcomes (P1.1, P3.2, P5.1) (20 marks)** | **Mark** | **Grade** |
| Student produces an **outstanding** written reportwhich **accurately** relates to the chosen business within the focus area and applies it coherently in **all** the following aspects:* ***Comprehensively*** *justifies the business* ***articulately describing*** *the Background information on the organisation, Structural Factor, Technical factors, Environmental Factors, Sociological Factors, Personnel issues, Industrial relations & WHS.*
* *Exhibits* ***exemplary*** *research skills that* ***critically investigates*** *by explaining a vast array of relevant and meaningful information collated from the chosen business.*
* *Uses word processing software* ***cohesively*** *when writing a report*
 | 17-20 | A |
| Student produces a **high-quality** written report which relates to the chosen business within the focus area and applies it in **most** of the following aspects: * ***Effectively*** *justifies the business clearly explaining the Background information on the organisation, Structural Factor, Environmental Factors, Sociological Factors, Personnel issues, Industrial relations & WHS.*
* *Demonstrates* ***accurate*** *research skills that* ***thoroughly explains*** *an array of relevant and meaningful information collated from the chosen business.*
* *Uses word processing software**showcasing* ***high quality*** *skills when writing a report*

  | 13-16  | B |
| Student produces a **sound** written report which relates to the chosen business within the focus area and applies in the following aspects: * ***Effectively*** *justifies the business clearly explaining the Background information on the organisation, Structural Factor, Environmental Factors, Sociological Factors, Personnel issues, Industrial relations & WHS.*
* *Demonstrates* ***comprehensive*** *research skills that* ***explains*** *an array of relevant and meaningful information collated from the chosen business.*
* *Uses**word processing software showcasing* ***sound*** *skills when writing a report*
 | 9-12 | C |
| Student produces a **basic** written report that attempts to relate to the chosen business within the focus area and applies it in **some** of the following aspects: * *Demonstrates a* ***basic*** *understanding of the chosen business and insubstantially* ***justifies*** *some of the business by explaining the Background information on the organisation, Structural Factor, Environmental Factors, Sociological Factors, Personnel issues, Industrial relations & WHS.*
* *Demonstrates* ***some*** *research skills that* ***outlines*** *an array of relevant and meaningful information collated from the chosen business.*
* ***Minimal*** *use**of**documentation skills when using word processing software to write a report*
 | 5-8 | D |
| Student displays **elementary** skills when producing awritten report that **vaguely** relates to the chosen business within the focus area and does not apply the following aspects: * *Demonstrates a* ***limited*** *understanding of the chosen business by providing* ***minimal*** *information related to,**the Background information on the organisation, Structural Factor, Environmental Factors, Sociological Factors, Personnel issues, Industrial relations & WHS.*
* *Demonstrates* ***very limited*** *research skills that* ***fails*** *to outline**an array of relevant and meaningful information collated from the chosen business.*
* ***Very limited*** *use of**documentation skills when using word processing software to write a report*
 | 1-4 | E |

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|  **ASSESSMENT MARKING CRITERIA** |
| **PART B - Outcomes (P1.2) (10 marks)** | **Mark** | **Grade** |
| Student **produces** an **outstanding** written report that **critically** examines and applies **extensive** communication related to a specific component within the business through including the following: * *Exhibits* ***exemplary*** *research skills that explicitly* ***identifies*** *the equipment, production and manufactured techniques used by the chosen company*
* *Includes a* ***comprehensive*** *explanation of new and emerging technologies that are used within the company*
* Provides an **array of** images and pictures of equipment that visually represents what is used within the company.
 | 9-10 | A |
|  Student **produces** a **high quality** written report that examines and applies **comprehensive** documentation related to a specific component within the business through including the following: * *Exhibits* ***outstanding*** *research skills that clearly* ***identifies*** *the equipment, production and manufactured techniques used by the chosen company*
* *Includes a* ***thorough*** *explanation of new and emerging technologies that are used within the company*
* Provides a **range** of images and pictures of equipment that visually represents what is used within the company.
 | 7-8 | B |
| Student **produces** a **sound** written report that **critically** examines and applies **extensive** documentation related to a specific component within the business through including the following: * *Exhibits* ***adequate*** *research skills that* ***identifies*** *the equipment, production and manufactured techniques used by the chosen company*
* *Includes an explanation of new and emerging technologies that are used within the company*
* Providesimages and pictures of equipment that visually represents what is used within the company.
 | 5-6 | C |
| Student **produces** a **basic** written report thatexamines and applies **limited** documentation related to a specific component within the business through including the following: * *Exhibits* ***basic*** *research skills that* ***identifies*** *some of**the equipment, production and manufactured techniques used by the chosen company*
* *Includes a basic explanation of new and emerging technologies that are used within the company*
* *Provides* ***some*** *images and pictures of equipment that visually represents what is used within the company.*
 | 3-4 | D |
| Student **produces** a written report that **fails** to examine and apply the necessarydocumentation related to a specific component within the business through including the following: * *Exhibits* ***limited*** *research skills that* ***identifies*** *the equipment, production and manufactured techniques used by the chosen company*
* ***Does not*** *include an explanation of new and emerging technologies that are used within the company*
* ***Does not*** *include images or pictures of equipment that visually represents what is used within the company.*
 | 1-2 | E |

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|  **ASSESSMENT MARKING CRITERIA** |
| **PART C - Outcomes (P7.2) (10 marks)** | **Mark** | **Grade** |
| Student produces an **outstanding** written reportwhich **accurately** relates to a new/and or emerging technology relating to the society and the environment within the chosen businesses focus area and covers the following aspects:* *Comprehensively* ***identifies*** *new/and or emerging technology and* ***articulately*** *explains how it impacts society and the environment*
 | 9-10 | A |
| Student produces a **high quality** written reportwhich **clearly** relates to a new/and or emerging technology relating to the society and the environment within the chosen businesses focus area and covers the following aspects:* *Clearly* ***identifies*** *a range of new/and or emerging technology and* ***explicitly*** *explains how it impacts society and the environment*
 | 7-8 | B |
| Student produces a **sound** written reportwhich **adequately** relates to a new/and or emerging technology relating to the society and the environment within the chosen businesses focus area and covers the following aspects:* ***Identifies*** *new/and or emerging technology and explains how it impacts society and the environment*
 | 5-6 | C |
| Student produces a **basic** written reportwhich relates to a new/and or emerging technology relating to the society and the environment within the chosen businesses focus area and covers the following aspects:* *Identifies* ***some*** *new/and or emerging technology and attempts to explain how it impacts society and the environment*
 | 3-4 | D |
| Student displays **elementary** skills when producing a written reportwhich relates to a new/and or emerging technology relating to the society and the environment within the chosen businesses focus area and covers the following aspects:* *Identifies* ***limited*** *new/and or emerging technology and fails to explain how it impacts society and the environment*
 | 1-2 | E |

**Industrial Technology – Timber Products & Furniture Technologies**

HSC Assessment #1 **Part A**

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| **Identify** | **Describe** | **Explain** | **Analyse** | **Critically Analyse** | **Evaluate** |
| The factors that impact on the organisation. | *Give detail about how the business manages these issues.* |  |  |  |  |
| Structural  |  |
| Environmental |  |
| Sociological |  |
| Personnel/Industrial |  |
| Work Health & Safety |  |
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**Industrial Technology – Timber Products & Furniture Technologies**

HSC Assessment #1 **Part B**

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| **Identify** | **Describe** | **Explain** | **Analyse** | **Critically Analyse** | **Evaluate** |
| *The equipment, production and manufactured techniques used by your chosen company* | *Give detail about what each item/technique does.* | *How does each item/technique help the business to be more efficient.*  |  |  |  |
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**Industrial Technology – Timber Products & Furniture Technologies**

HSC Assessment #1 **Part C**

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| **Identify** | **Describe** | **Explain** | **Analyse** | **Critically Analyse** | **Evaluate** |
| *Identify a new/and or emerging technology used by your chosen company* | Describe the characteristics and features. | *How does the technology impact on society and the environment?* |  |  |  |
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