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File: Assignment\_02\_\_1\_.docx

**Student:** Samten CHODEN - 10618753samtenc@our.ecu.edu.au

Word count: 2632

Assessment task: Case study

Feedback areas:

Structure

Choice of language

Spelling

Use Of Sources

**State of document:** Almost ready to hand in

**Submission ID:** 82b84797-46fd-48b8-9629-790a9a8c874b

#### Glossarv

Click here to see a full glossary of English writing terms and their definitions.

# Assignment\_02\_\_1\_.docx

Please note that the specialist has not proofread your work but has highlighted examples of the types of errors you need to look out for. Please review your entire document with these examples in mind before you submit your assignment.



#### **Emily K**

Joined in 2018

♣■ NS, Canada

#### **General Comments**

Hi, and thank you for using Studiosity to submit your case study! It looks like you're in the final stages of completing your assignment, but there are just a couple of minor things to address before you submit your work.

In terms of your structure, I noticed some areas in need of signposting terms, missing headings, issues with topic and concluding sentences, as well as issues with paragraph cohesion. Regarding your language, I noticed some issues with the passive voice, casual language, repetition and un-introduced acronyms. In terms of grammar, I noticed issues with word form. Finally, regarding your use of sources, I noted some potential missing citations and inconsistencies in the formatting of your references.

These issues have been discussed in further detail in their respective sections below.

#### Structure

Your paper is laid out well as it contains an executive summary, an introduction, body sections and an identifiable conclusion. You also present information in a logical sequence. However, there are some areas in need of signposting terms, missing headings, issues with topic and concluding sentences, as well as issues with paragraph cohesion.

Using necessary headings or subheadings

There are a large number of small but related paragraphs within your writing. The use of headings and subheadings will help to organise your different points as well as make it easier for the reader to follow your ideas.

#### Using concluding sentences

A paragraph should have a concluding sentence that links back and reinforces the main idea of the paragraph. Sometimes, it may also introduce the idea of the next paragraph. For example, a paragraph with the topic sentence 'Genetic engineering can be very beneficial in some areas' may have the concluding sentence 'Therefore, the application of genetic engineering has benefitted not only science but also medicine and agriculture'.

#### Cohesion in paragraphs

Cohesion refers to the way in which all the ideas in a paragraph hang together. Cohesion can be achieved by linking ideas together through the use of pronouns, linking words, or repetition of key words and phrases. Lack of cohesion results in a disjointed paragraph, so readers find it difficult to see the relationship between ideas and the logic of an argument.

#### Using signposting language

Signposting language is important to help signal the relationship between your ideas. Signposting language such as 'In addition', 'However', 'On the other hand', and 'A case in point' helps to logically organise your ideas and assists the reader to know what is coming next in your argument.

For more information, watch this: <a href="https://vimeo.com/725502969/adf81bc18f">https://vimeo.com/725502969/adf81bc18f</a>

## Controlling idea needs clarity

Topic sentences in a paragraph need to have a subject and a controlling idea. The controlling idea is important because it tells the reader the main idea or focus of the paragraph. A controlling idea may be a word such as 'beneficial' or a phrase such as 'has several advantages'. Ensure that you have a clear controlling idea that introduces the main idea or focus of your paragraph.

#### Choice of language

Your language is mostly clear and understandable in this document. However, there are some issues with the passive voice, casual language, repetition and un-introduced acronyms. The information below should help you improve your flow and formal tone.

#### Avoiding long-term repetition

You have used similar language repeatedly throughout parts of your paper. Varying your language can help your ideas flow more clearly. Try to use synonyms when this occurs; for example, if you find you've used a word like 'however' frequently throughout your document, try replacing some instances with words like 'conversely' or 'despite this' to improve the readability of your writing.

#### Avoiding the passive voice

Be aware of using the passive voice unnecessarily, as it can make your writing more wordy and difficult to digest for the reader. You should aim to use the active voice where possible. For example, in this sentence the passive voice has been used unnecessarily, leading to wordiness: 'It is considered by many public health professionals that not all spending on health has been properly researched'. Rather, using the active voice will make the sentence more direct and concise. For example, 'Public health professionals believe that not all spending on health has been properly researched'.

For more information, watch this: <a href="https://vimeo.com/725502480/d5b4411db6">https://vimeo.com/725502480/d5b4411db6</a>

#### Using acronyms

When using acronyms, make sure to write the words out in full for the first use with the acronyms in brackets beside it. You can then use the acronym for all subsequent uses. For example, the Royal Society for the Prevention of Cruelty to Animals (RSPCA).

#### Using conjunctions to begin sentences

Beginning a sentence with a coordinating conjunction such as 'and', 'or', or 'but' can create an informal tone, so this should generally be avoided in academic writing. An example might be 'He worked hard on the presentation. But the meeting was cancelled'. We can fix this by linking the sentence to the previous sentence with a comma (He worked hard on the presentation, but the meeting was cancelled) or changing the working (He worked hard on the presentation. However, the meeting was cancelled). This can make your writing more formal.

#### Spelling / Grammar

Your sentences are generally grammatically sound and convey most of your ideas clearly. It also looks like your spelling is generally correct, although some American English spelling was noted. Nevertheless, there are some issues with word form.

The information below should help you improve your grammar, and this will, in turn, improve your clarity.

#### Using American-English spelling

Our system detected the use of American English in your writing. While both American and British English are correct as long as they are used consistently, we wanted to highlight this in case this was unintentional. When you mix up the different spellings, it can look like you've made a mistake or even change the meaning of the word. For example, the British English colour, metre, rationalise, mum, practise (verb), and spelt; compared to the American English color, meter, rationalize, mom, practice (noun and verb), and spelled.

#### Using plural nouns

When countable nouns are used to refer to something in general (for example, 'computers are useful') or to talk about more than one of the noun (for example, 'there are twelve computers in the library'), the noun should be in the plural form. This is usually done by adding 's' or 'es' to the end of the word (for example, 'workers' or 'classes'), but some words have an irregular form in the plural (for example, 'children' or 'people').

#### Use of sources

Overall, it is clear that you've tried to cite your sources throughout your paper. You explain source material clearly and incorporate your references appropriately for the most part as well. However, there are some potential missing citations and inconsistencies in the formatting of your references.

#### Citing all sources

When using information from sources, it is important that you cite the source every time and use the appropriate format specified by your referencing style.

For more information, watch this: <a href="https://vimeo.com/725502018/b948d2fcb3">https://vimeo.com/725502018/b948d2fcb3</a>

#### Avoiding inconsistencies in reference list

It is important to make sure that there are no inconsistencies in the formatting of your reference list. You should aim to check each reference against your institution's referencing style guide for accuracy before you submit your assignment for marking.

#### **ECU Resources**

Subject Librarians can provide advice on research, referencing and learning technology support advice either in workshops or via academic skills drop-in sessions, or by appointment.

#### Attend a drop-in session or make an appointment

https://ecu.au.libguides.com/library-essentials/help-support

#### <u>View Reviewed Document</u>



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Information Systems Challenges In

Management -MAN5901.6

**Assignment II** 

**Submitted by Samten Choden** 

# **Student ID: 10618753**

Friday, Jun 2, 2023

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### **Executive Summary**

This report addresses the challenges faced by ABC Company [This sentence uses the passive voice. To make this sentence more powerful, you should switch to the active voice. For instance, you could use the phrasing "ABC Company faces."] in its expansion plan to encompass research, production, testing, and sales of car parts. The company's headquarters in Perth and three factories located in different countries present significant obstacles to growth and operational efficiency. The lack of connectivity and digitization among the factories hampers coordination, real-time information sharing, and collaboration, leading to delays, errors, and inefficiencies in manufacturing operations. Without a connected infrastructure, the company struggles to synchronize production processes and ensure efficient collaboration between factories. This not only impacts the overall productivity but also creates challenges in managing resources effectively. The lack of real-time information sharing further inhibits the company's ability to respond quickly to market demands and customer needs. Addressing these connectivity and digitization challenges is crucial for streamlining operations and enabling efficient collaboration between the factories.

Additionally, the company's inability to leverage data for automation and informed decision-making limits its potential for optimizing production efficiency and quality control. Without the ability to collect, analyze [You have used American English. If you intended to do so, please remain consistent throughout your work.], and utilize data effectively, ABC Company cannot fully automate its manufacturing processes or make data-driven decisions to enhance productivity. Implementing data collection and analysis systems can provide valuable insights into production workflows, identify areas for improvement, and enable the company to make informed decisions to optimize efficiency. By harnessing the power of data, ABC Company can enhance its manufacturing operations, improve product quality, and ultimately drive growth and profitability in the car parts industry.

#### Introduction

In the ever-evolving landscape of the automotive industry, companies like ABC Company face numerous challenges that impede their growth and operational efficiency. The continuous evolution of market demands and technological advancements has prompted businesses to adopt digital integration and data-driven strategies to optimize their operations and remain competitive (Gölzer & Fritzsche, 2017). ABC Company, a prominent car parts importer and seller based in Perth, is preparing to undertake a transformative initiative aimed at improving production processes and expanding its business operations. ABC Company ventures into the expansion of its operations to encompass research, production, testing, and sales of car parts, the implementation of key technology solutions including enterprise resource planning (ERP) systems, big data and analytic, blockchain, and cybersecurity measures is crucial. These [Use signposting language to signal the relationship between your ideas, such as "ultimately."] technologies will address challenges related to connectivity, digitization, data utilization, supply chain management, and cybersecurity, enabling ABC Company to enhance operational efficiency, optimize production processes, improve decision-making, ensure transparent and efficient supply chain operations, and protect against cyber threats.

Improving connectivity and digitization to enhance coordination and collaboration among ABC Company's factories and improve operational efficiency. Similarly, to enhance connectivity and digitization, the company should implement a connected network infrastructure and adopt ERP to improve the efficiency of management decisions and operation plans and increase the flexibility with adjustments of functionality to react to changes in business needs (Zheng, Yen, & Tarn, 2000). Leveraging real-time data and advanced analytic This noun should be in the plural form. We use the plural form to talk about something in general or more than one of a noun.] will enable data-driven manufacturing and decision-making, optimizing production processes and resource allocation. Implementing a robust Supply Chain Management (SCM) software solution, and traceability solutions such as barcoding or blockchain technology, to enhance visibility, efficiency, and timely delivery throughout ABC Company's supply chain. To ensure business continuity, the company should establish a comprehensive cybersecurity strategy, including network segmentation, firewall implementation, data encryption, regular security audits, and employee training. These This is another place that would benefit from signposting language.] solutions will enable ABC Company to improve coordination, operational efficiency, product authenticity, and security, positioning it for successful expansion and uninterrupted operations.

# **Implications of Findings and Recommendations**

Firstly, connecting the three factories and digitizing the production processes is a crucial step in enhancing operational efficiency and enabling seamless coordination among the facilities. To achieve this, ABC Company should invest in a robust and secure network infrastructure. Moreover, this infrastructure should provide reliable connectivity between the factories and the headquarters, enabling seamless communication and data transfer. According to Wood et al. (1988, cited in Pickett & Lassila, 2001), as the number of business locations in the private network increases, so do the interconnect requirements and the network complexity. Therefore, implementing technologies such as Virtual Private Networks (VPNs) and Wide Area Networks (WANs) will allow for secure and efficient communication across locations, enabling seamless coordination and collaboration within ABC Company's operations. Additionally [Your effective use of signposting language helps to create cohesion in this part of your writing.], to digitize and streamline production processes, ABC Company should consider implementing an ERP system.

The primary objective of implementing an ERP system is to enhance an organization's competitive edge by enhancing its capacity to generate precise and up-to-date information across the enterprise and its supply chain (Beheshti, 2006). Additionally You have used this word regularly throughout your paper; try to vary your language by using synonyms (moreover, furthermore, etc.) to improve your flow.], ERP systems will integrate various functional areas such as production planning, inventory management, and order processing into a centralized platform. This will enable real-time visibility into production operations, facilitate efficient coordination of orders, and enhance collaboration among the factories and headquarters. The ERP system will also provide a single source of truth for data, eliminating duplication and ensuring data integrity across the organization.

To enhance operational efficiency and coordination among the three factories, ABC Company should invest in a secure network infrastructure, such as Virtual Private Networks (VPNs) and Wide Area Networks (WANs). According to Lai (2022), implementing dedicated leased lines or encrypted VPN tunnels can ensure secure and efficient interconnectivity between the factories and headquarters, facilitating seamless communication and data transfer. This will ensure reliable communication and secure data transfer between the factories and headquarters. Additionally, to streamline production processes and enhance operational efficiency, implementing an ERP system can be highly beneficial. This system integrates various areas such as production planning, inventory management, and order processing, enabling seamless coordination and improved decision-making within ABC Company's operations. The ERP system will provide real-time visibility, efficient

coordination, and improved collaboration, while ensuring data integrity across the organization. For instance, This paragraph requires a concluding sentence to link back to the main idea of the paragraph or lead into the following paragraph. This should generally not include new examples or external source information. By implementing an ERP system like SAP or Oracle, ABC Company can centralize its production data, enabling effective collaboration among the factories and headquarters, reducing duplication, and ensuring data integrity across the organization.

Secondly, implementing data-driven manufacturing and decision-making represents a significant milestone for ABC Company in improving operational efficiency and making strategic decisions based on informed insights. As mentioned by Bose (2009), This is another sentence where the passive voice might not be the best choice. Please see my notes in the Feedback Summary section for more help with this issue. The adoption of advanced analytics-driven data analyses provides enterprises with a comprehensive view of their operations and customers. By leveraging advanced analytic techniques such as predictive analytic and machine learning, ABC Company can extract valuable insights from the collected data. These techniques enable the identification of patterns, forecasting of demand, optimization of production schedules, and overall efficiency improvement.

By embracing data-driven manufacturing techniques, ABC Company can detect and eliminate inefficiencies in its production process, leading to cost reductions and increased productivity levels. Additionally, by gaining a thorough understanding of customer preferences and needs, ABC Company can make informed decisions regarding product design, marketing strategies, and customer service initiatives. This customer-centric approach fosters higher levels of satisfaction and cultivates long-term loyalty. Furthermore, by harnessing the power of data-driven insights to drive decision-making, ABC Company can establish a stronger competitive position compared to its industry rivals. The effective utilization of data empowers the company to make informed choices that surpass industry standards and gain a competitive advantage (Peddireddy, 2023). So [It can be seen as informal to begin a sentence with a coordinating conjunction, like 'and' or 'but'. Consider changing your wording or linking the sentences with a comma.], implementing data-driven manufacturing and decision-making empowers ABC Company to enhance operational efficiency, make well-informed strategic decisions, satisfy customers, and secure a stronger competitive edge. By leveraging advanced analytic techniques and embracing data-driven practices, ABC Company can drive innovation and success in the dynamic marketplace.

With the use of data-driven manufacturing and decision-making, ABC Company can optimize its supply chain operations. For example, by analyzing customer demand data, ABC can identify popular car parts in the Australian market, optimize inventory management, and enhance customer satisfaction. According to Li, Chi, Hao, and Yu (2018), data generated by electronic commerce allows companies to explore browsing behaviors, habits, preferences, and even characteristics of customers, which can help them understand their customer's needs more clearly. Additionally, data analysis can help ABC evaluate and collaborate with reliable and cost-effective overseas suppliers, improving the supply chain process. Additionally [This is another example of long-term repetition, as you've used this word throughout your paper. Please see the Feedback Summary for more details.], ABC can streamline shipping and logistics operations, reducing costs and ensuring timely delivery. Overall, data-driven practices empower ABC Company to meet market demands efficiently and gain a competitive edge in the automotive parts industry.

Enhancing supply chain management (SCM) and product traceability is of utmost importance for ABC Company's expansion and operational improvement. To accomplish this, the company should explore the implementation of advanced technologies and systems that can effectively streamline and optimize supply chain processes, while simultaneously ensuring the traceability of its products. One key solution to improve supply chain management is the adoption of a robust SCM software system. Agarwal et al. (2022) mentioned that SCM is a network that is made up of independent or semi-independent business entities such as producers, suppliers, retailers, and clients who are involved in the manufacturing and distribution of goods. This software integrates various aspects of the supply chain, [It appears that you have used a source here, but you have not cited it.]including procurement, inventory management, logistics, and distribution. By implementing an SCM system, ABC Company can enhance visibility and control over its supply chain activities. The system can facilitate real-time monitoring of inventory levels, automate order fulfillment processes, and enable efficient coordination between the factories and headquarters. This will help in minimizing stockouts, reducing lead times, and optimizing inventory levels, leading to improved operational efficiency and customer satisfaction.

In addition to SCM software, implementing product traceability solutions can greatly enhance ABC Company's ability to track and trace its products throughout the supply chain. Barcoding technology can be utilized [This is also an example of where the passive voice should be avoided. Please check your work thoroughly for any other cases like this.] to label each product with a unique identifier, enabling easy identification and tracking. This capability empowers the company to closely monitor the movement of products, from the

factories to the Perth headquarters, and ultimately to the customers. In the event of incidents or recalls, ABC Company can swiftly identify the affected products and take necessary actions to ensure customer safety.

Moreover, the adoption of blockchain technology can provide a decentralized and immutable ledger for recording and verifying product transactions and movements. According to Bhushan, Anushka, Kumar, and Katiyar (2022), blockchain technology enhances security in supply chain management by utilizing cryptographic algorithms and providing a decentralized ledger for data recording, management, storage, and transmission. By leveraging blockchain technology, ABC Company can create a transparent and auditable supply chain ecosystem, ensuring the authenticity and integrity of its products. This technology also enables secure and trustless collaboration with suppliers and customers, enhancing supply chain visibility and reducing the risk of counterfeits.

ABC Company should implement a robust Supply Chain Management (SCM) software system to enhance operational efficiency. This system will streamline procurement, inventory management, and logistics, leading to minimize stock outs, reduced lead times, and improved customer satisfaction. Additionally [This is another example of where signposting language would be beneficial.], implementing product traceability solutions like barcoding technology and blockchain will enable easy tracking and swift response in case of incidents or recalls. Barcoding each product with a unique identifier allows for seamless tracking throughout the supply chain, while blockchain technology provides a decentralized ledger for transparent and secure product verification. These measures will enhance supply chain visibility and customer trust, ensuring a more efficient and reliable supply chain for ABC Company.

Finally, cybersecurity is essential for any organization, especially those that operate in critical infrastructure sectors like manufacturing. By implementing robust cybersecurity measures, ABC Company can protect its data, systems, and networks from potential cyber threats and ensure uninterrupted business continuity. According to Björkdahl (2020), as ABC Company expands its operations and integrates various activities, including research, production, testing, and sales, the need for upgraded systems and efficient data management becomes paramount. In the modern business landscape, safeguarding the continuity of operations and connections has become increasingly crucial for organizations. This is particularly relevant for ABC Company, which is currently undergoing an IT-enabled transformation to enhance its functional operations. By prioritizing cybersecurity, ABC

Company can mitigate risks, protect its sensitive information, and maintain a secure environment for its operations and connections.

Sezgin and Boyacı (2023) conducted [This topic sentence does not have a clear controlling idea. This makes it difficult for the reader to know what the focus of the paragraph will be. A strong topic sentence generally contains a claim made in your own words, with subsequent sentences presenting evidence.] a survey on the privacy and security challenges in industrial settings, emphasizing that cybersecurity involves practices aimed at safeguarding computer systems, networks, and data from unauthorized access, theft, and disruptions. The primary goal is to ensure the confidentiality, integrity, and availability of information. Its significance lies in maintaining business continuity, as breaches can result in operational disruptions, data breaches, financial losses, reputational damage, and legal consequences.

For ABC Company, securing connections between headquarters and acquired factories, as well as internal systems, is of utmost importance. This entails implementing firewalls, secure communication protocols, and access controls to prevent unauthorized access and data breaches. Lamba This paragraph lacks cohesion, so it is difficult for the reader to follow. You might consider adding some linking words and phrases to show how your ideas ar econnected. (2018) emphasized the significance of protecting sensitive data, such as customer information, research data, production records, and intellectual property. The author suggested that employing encryption techniques, data access controls, and intrusion detection systems is crucial for ensuring data integrity and minimizing the risk of unauthorized disclosure. The study also highlighted the importance of robust incident response protocols in effectively managing cybersecurity incidents. Continuous monitoring, threat intelligence, and vulnerability assessments should be part of ABC Company's cybersecurity framework to proactively detect and respond to potential threats.

To ensure business continuity, ABC Company should prioritize robust cybersecurity measures. For example, implementing encrypted VPN tunnels can secure communication between headquarters and factories, protecting data during transmission. Utilizing intrusion detection systems, such as Snort or Suricata, can detect and prevent unauthorized access to the network. Establishing incident response protocols, like creating an incident response team and conducting regular drills, enhances preparedness. Continuous monitoring through SIEM [With acronyms, spell out the words on first use, put the acronym in brackets (), then use the acronym for all subsequent uses.] systems and vulnerability assessments like penetration testing can identify and address potential security risks. These measures ensure

the company's operations are protected from cyber threats, such as data breaches or unauthorized access.

To conclude, [Use a heading or subheading here to group related paragraphs together. Like you did for your introduction, you should include a heading for your "Conclusion."]ABC Company's expansion plan in the car parts industry can be significantly improved by implementing a connected network infrastructure, adopting ERP systems, embracing data-driven manufacturing and decision-making, implementing robust SCM software and traceability solutions, and establishing comprehensive cybersecurity measures. These initiatives will enhance coordination, collaboration, and real-time information sharing between factories, optimize production processes, improve resource allocation, enhance supply chain visibility, inventory management, and product authenticity, and safeguard against potential cyber threats. By addressing these challenges and leveraging advanced technologies, ABC Company can elevate its operational efficiency, gain a competitive advantage, and thrive in the dynamic automotive parts industry.

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Lai, C. (2022). Intelligent Features of Intelligent Manufacturing. 161–214. <a href="https://doi.org/10.1007/978-981-19-0167-6\_4">https://doi.org/10.1007/978-981-19-0167-6\_4</a>

Your draft has been checked for text that matches existing public sources.

Finished reviewing your submission?