

P1: Advantages of technology use in a business

Here in this business, they have a server which has is the backbone of the business and here are some advantages of the business using a server to store their files and what the business could do to make sure that the business does not get hacked. Businesses should consider the following.

1. Efficiency

Having efficient systems in the business such as a server means that people can upload and download onto the server and where necessary they can use it outside of the office without the need to be connected to the network. For a server to be efficient in a business. Having a central server means that people can constantly be doing things while other people are also on the server.

2. Reliability

Regular and timely updates to hardware can increase or boost productivity within the company, this means that the hardware here which is the server is less prone to failure. Having this is critical for the business is dependent on that specific hardware. Most servers will keep two copies of the file just in case something happens, alternatively a good thing is to back up data regularly to make sure your file is safe and secure.

3. Security

Regular software and driver updates enhance security which means the system is less likely to be hacked. One security breach could mean data that is valuable to the company may be compromised and held hostage or deleted. Servers are safe depending on what software is running, say for example Windows which has software such as firewalls to protect against hackers, people constantly monitoring for suspicious activities etc.

4. Compatibility

Newer hardware tends to be more compatible than previous hardware and therefore reduces the issue of compatibility. Most servers may require certain ram configurations for example one may require DDR4 ram whilst one may require DDR5 ram. Also, this also applies to the drives that you put into it and what power supply you use. Certain servers need certain components to be able to run so this is not ideal.

M1: Advantages of technology use in a business

Installing and maintaining software can have significant impacts on a business, both positively and negatively. Here's a review of how these processes can affect a business:

Positive Impacts:

1. Increased Efficiency:

- Properly chosen and configured software can streamline business processes, automate repetitive tasks, and improve overall efficiency.

2. Enhanced Productivity:

- Productivity tools and software applications can boost employee productivity, allowing them to accomplish tasks more quickly and effectively.

3. Better Decision-Making:

- Analytical and reporting software can provide valuable insights, enabling informed decision-making based on accurate data.

4. Competitive Advantage:

- Implementing the latest and most effective software solutions can give a business a competitive edge, especially if these tools offer features that competitors lack.

5. Scalability:

- Some software solutions are scalable, allowing businesses to adapt and grow without significant disruptions.

Negative Impacts:

1. Costs:

- Software licenses, maintenance fees, and the cost of skilled personnel for installation and maintenance can be significant, impacting on the overall budget.

2. Downtime and Disruptions:

- Poorly managed software updates or installations can lead to downtime, disrupting business operations and potentially causing financial losses.

3. Training Requirements:

- Introducing new software may require employee training, which can consume time and resources. Inadequate training can lead to inefficiencies or errors.

4. Compatibility Issues:

- Incompatibility between different software systems or hardware can lead to integration challenges, hindering smooth operations.

5. Security Risks:

- Poorly maintained or outdated software can pose security risks, making a business susceptible to data breaches, cyberattacks, or other security incidents.

6. User Resistance

- Employees may resist changes to their workflow or resist using new software, especially if they find it difficult to adapt.

D1: Advantages Vs Disadvantages for the technology system

Advantages

1. Gets things done faster

Having technology that help people out reduces workload, stress etc. for example in the modern age when AI is really taking off and can be used to automate tasks so employees can focus on more brain hungry problems.

2. Communication made easier....

Technology in the modern age means that someone that cannot make it to the office can join from home without having to be in the office.

3. Helps understand and plan

Having AI in the modern world means that data can be analyzed much quicker than a normal person. This therefore helps us to make tough decisions, for example what customers like and therefore plan.

Disadvantages

1. Can be expensive

Having technology here in a business is costly. Buying and maintaining software costs money and therefore makes people question how to best use the budget.

2. Security Worries

The risks of getting hacked are high. The business spends even more money making the existing system secure and protect from credentials being stolen.

3. Different people struggle to keep up

Employees have a tough time learning new tools and may stick to something that is comfortable for them and therefore creates a gap between the people who do and do not like modern technologies.

P1: Advantages of technology use in a Smart Phone

Here we are considering the phone as an automated system and how It can make a change in automation forever. Its internal components rely on lots of hardware components such as a battery and an LCD screen to name a few.

1. Efficiency

Improving a technology system in phone assembly involves integrating advanced robotics, lean manufacturing principles, and predictive maintenance through data analytics. Collaborative robots and AI-driven quality control enhance precision and defect identification. Real-time monitoring, supply chain integration, and employee training streamline operations. Focusing on energy efficiency, flexible manufacturing, and cybersecurity measures ensures adaptability and a secure environment. This comprehensive approach optimizes processes, promotes agility, and enhances overall quality in phone assembly.

2. Scalability

As the demand for phones rises, the scalability of a phone factory becomes crucial. Expanding operations and incorporating additional robotic assembly lines are key strategies to accommodate increased demand. By doing so, the factory can efficiently scale up production to meet higher output requirements within tight periods. The integration of more robotic assembly lines not only ensures scalability but also enhances the overall efficiency and precision of the manufacturing process. This adaptability to increased demand allows the factory to maintain a competitive edge in the market and capitalize on opportunities for growth. Data processing power

3. Remote management and monitoring

The company can view the status for each hardware component remotely on the automated assembly lines and if an issue were to occur then a technician to go out and fix the issue, maximizing the product output delay.

D1: Advantages Vs Disadvantages for the technology system

Advantages

1. Innovative features....

New smartphone companies are constantly introducing, can include advanced camera capabilities, enhanced processing power which makes customers come back and buy new phones and technologies.

2. Global connectivity....

Phones allow instant communication with anyone around the world Aswell as endless amounts of information. Businesses use this as an advantage to reach users all around the world.

3. Ecosystem integration....

Modern technology has advanced where now devices such as google home can seamlessly connect to homes and other devices such as ovens, phones, and the cloud. This makes the user more productive and enhances user experience.

Disadvantages

1. High development costs

Development of industry standard technology costs a lot of money including marketing and research and development(R&D). companies mostly invest in designing, testing, and manufacturing the product which creates financial burden for the business.

2. Rapid Tech obsolescence

Nower days modern technology is coming out too quickly, so that new tech is still being trashed which makes people want to upgrade to a newer model of phone.

3. Security & privacy concerns....

Technology stores loads of personal information making them more prone to cyber-attacks, breaches. This means that personal information can be made public or be sold on the dark web.