Pearson BTEC Level 4 Higher Nationals in Business (RQF)

Unit: 14

Assignment 1:

Information Pack

Learning Outcomes 1-4

Digital Business in Practice





INTRODUCTION

As businesses across industries digitise their operations and processes, digital skills are highly valued by employers. Developing digital skills — ranging from data analysis, digital design, digital marketing and customer relationship management — is vital for progression in higher education but, crucially, also aids employability in a vast array of roles in the business environment.

In today's world, new technologies play an increasingly important role in the economy and in society. To remain competitive, businesses need to continually update and upskill their workers' competences. There is also a responsibility and onus on individuals to keep up to date with the changing digital landscape.

In this unit, students will explore the impact of a range of digital technologies on the workplace. They will examine how these technologies can support businesses aims and services, allow interaction with customers, for example to promote their business, to encourage people to visit their e-commerce site, to buy goods or services, to drive and increase sales and to provide high levels of customer service. The skills generated through an understanding of the practical and necessary use and application of relevant technologies will enable students to present themselves as being digitally literate to employers and give them the confidence to succeed in applying modern, digital methods.

This pack is designed to give you the information and guidance that you will need to complete your assignments for this unit.





GUIDANCE

This document is prepared to break the unit material down into bite size chunks. You will see the learning outcomes above treated in their own sections. Therein you will encounter the following structures;

Purpose

Explains why you need to study the current section of material. Quite often learners are put off by material which does not initially seem to be relevant to a topic or profession. Once you understand the importance of new learning or theory you will embrace the concepts more readily.

Theory

Conveys new material to you in a straightforward fashion. To support the treatments in this section you are strongly advised to follow the given hyperlinks, which may be useful documents or applications on the web.

Example

The examples/worked examples are presented in a knowledge-building order. Make sure you follow them all through. If you are feeling confident then you might like to treat an example as a question, in which case cover it up and have a go yourself. Many of the examples given resemble assignment questions which will come your way, so follow them through diligently.

Question

Questions should not be avoided if you are determined to learn. Please do take the time to tackle each of the given questions, in the order in which they are presented. The order is important, as further knowledge and confidence is built upon previous knowledge and confidence. As an Online Learner it is important that the answers to questions are immediately available to you. Contact your Unit Tutor if you need help.

Challenge

You can really cement your new knowledge by undertaking the challenges. A challenge could be to download software and perform an exercise. An alternative challenge might involve a practical activity or other form of research.

Video

Videos on the web can be very useful supplements to your distance learning efforts. Wherever an online video(s) will help you then it will be hyperlinked at the appropriate point.



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LO1 Examine the digital business environment, emerging trends and contemporary approaches

Defining digital business:

What is digital business?

Digital business refers to the use of digital technologies to create new value in business models, customer experiences, and the internal capabilities that support its core operations. It involves leveraging digital tools and platforms to enhance traditional business practices or develop entirely new ways of conducting business. Digital businesses use technology to reach more customers, optimise operations, and innovate more effectively.

Digital business goes beyond mere online presence. It incorporates a wide range of digital elements such as cloud computing, big data analytics, mobile applications, and artificial intelligence. For example, companies might use machine learning to personalise customer interactions or employ cloud computing to scale their operations globally. The aim is to create a seamless digital ecosystem that integrates with physical processes to deliver superior value.

The core of digital business is agility and responsiveness. Businesses must be able to quickly adapt to technological changes and evolving market demands. This often involves continuous experimentation and iteration, utilising data-driven insights to make informed decisions. Companies that successfully adopt digital business practices are often more competitive, innovative, and better positioned for long-term growth.

Digital business also emphasises customer centricity. Through digital channels, companies can interact with customers in real time, gather insights from customer data, and tailor offerings to meet specific needs. This has given rise to new forms of customer engagement and loyalty, often driven by personalised experiences that were not possible before the digital age.

Security and compliance are critical considerations in digital business. As businesses collect more data and rely more on digital infrastructures, they face increased risks related to data breaches, cyber-attacks, and regulatory violations. Therefore, robust cybersecurity measures and adherence to data protection laws are essential components of digital business strategies.





Figure 1 Example of Digital Business in Pracitce

What is digitisation?

Digitisation is the process of converting information into a digital format. In a business context, this means taking analogue information, such as paper documents, records, or photographs, and transforming them into digital data that can be stored, processed, and transmitted by electronic devices. Digitisation is often the first step toward digital transformation as it enables businesses to manage information more efficiently and opens new opportunities for data analysis and automation.

The benefits of digitisation include increased accessibility, enhanced data security, and better data preservation. By converting physical records into digital formats, businesses can easily store and retrieve data, reducing the risk of loss or damage. Furthermore, digital data can be encrypted and protected by access controls, making it more secure than traditional paper records.

Digitisation also supports automation. Once data is digitised, it can be processed by software applications to automate repetitive tasks, such as data entry or document management. This can significantly reduce operational costs and improve productivity. Additionally, digital data can be integrated across different systems, enabling better information flow and collaboration.

However, digitisation is not without challenges. Businesses must ensure that their digitisation efforts are comprehensive and consistent to avoid information silos and data integrity issues. There are also concerns about privacy and security, as digital data can be vulnerable to hacking and unauthorised access. Therefore, businesses must implement strong cybersecurity measures to protect their digitised information.

The process of digitisation often requires significant investment in technology and training. Businesses need to acquire the necessary hardware and software, as well as train employees on how to use digital tools effectively. Despite these costs, the long-term benefits of digitisation often outweigh the initial investment, making it a crucial component of modern business strategy.



What is mean by the digitisation of business?

The digitization of business refers to the integration of digital technologies into all areas of a business, fundamentally changing how companies operate and deliver value to customers. This process involves digitizing both internal processes and customer interactions, allowing businesses to operate more efficiently and create more personalized experiences. Essentially, it is about transforming business activities, processes, competencies, and models to fully leverage the opportunities of digital technologies.

At its core, the digitization of business is about moving from analogue to digital. This can mean digitizing paper-based processes, using digital communication tools, or adopting new technologies like cloud computing, artificial intelligence, and the Internet of Things (IoT). The goal is to create a more agile and responsive organization that can quickly adapt to changing market conditions and customer needs.

For example, a company might digitize its supply chain management system to improve inventory tracking and reduce lead times. Another business might use digital marketing tools to target customers more effectively and measure the impact of their campaigns in real time. These digital capabilities not only improve operational efficiency but also enhance decision-making by providing real-time insights and analytics.

The digitization of business also affects customer experiences. Digital tools enable businesses to interact with customers in new ways, such as through social media, mobile apps, and online chatbots. This not only makes it easier for customers to access services but also allows businesses to gather valuable data on customer preferences and behaviour. By analysing this data, companies can develop more personalized offerings and improve customer satisfaction.

However, digitizing a business is not just about technology; it also requires a cultural shift. Organizations must foster a digital mindset, where employees are encouraged to embrace new technologies and continuously seek out ways to innovate. This often involves breaking down silos, encouraging collaboration, and promoting a culture of experimentation and learning.

What are some Digital Business Models?

Digital business models refer to the frameworks that organizations use to create, deliver, and capture value using digital technologies. These models can vary significantly depending on the industry, market, and specific business goals. Some common digital business models include e-commerce, subscription-based services, freemium models, and platform-based ecosystems.

E-commerce is one of the most prevalent digital business models. It involves selling products or services online, allowing businesses to reach a global customer base without the need for physical stores. Examples of successful e-commerce businesses include Amazon and Alibaba, which have built massive digital platforms that connect buyers and sellers worldwide.

Subscription-based models have also gained popularity in the digital age. This model involves charging customers a recurring fee to access a product or service. Companies like Netflix and Spotify use subscription



models to provide continuous access to digital content. This model not only provides a steady revenue stream but also fosters customer loyalty and engagement.

The freemium model is another common digital business strategy. In this model, businesses offer basic services for free while charging for premium features. This approach is often used by software companies, such as Dropbox and LinkedIn, to attract a large user base and then convert a percentage of these users into paying customers by offering additional functionalities.

Platform-based ecosystems have revolutionized many industries by connecting multiple participants and facilitating interactions. Companies like Uber and Airbnb use platform models to connect service providers with consumers, creating value through network effects. The more users join the platform, the more valuable it becomes for everyone involved.

Digital business models are not static; they evolve with technological advancements and changing market conditions. Businesses must continuously innovate and adapt their models to stay competitive. This often involves experimenting with new technologies, exploring new revenue streams, and refining customer experiences to meet evolving needs.

How are digital models incorporated into business operations?

Digital models are incorporated into business operations through the integration of digital technologies and practices that enhance efficiency, flexibility, and innovation. This process often involves adopting new tools and platforms, redesigning processes, and fostering a culture that embraces digital transformation. The aim is to create a seamless digital infrastructure that supports all aspects of the business, from customer interactions to back-office operations.

One-way digital models are integrated is through the use of cloud computing. Cloud-based solutions enable businesses to store and access data remotely, scale resources up or down as needed, and reduce IT costs. Companies like Google, Microsoft, and Amazon offer cloud services that support various business functions, from data storage and analytics to customer relationship management and human resources.

Automation is another key aspect of incorporating digital models into business operations. By automating repetitive tasks, businesses can reduce manual labour, minimize errors, and improve productivity. Robotic process automation (RPA) and artificial intelligence (AI) are often used to automate processes such as data entry, customer service, and inventory management, allowing employees to focus on more strategic activities.

Digital models also enhance decision-making through data analytics. By leveraging big data and advanced analytics tools, businesses can gain insights into customer behaviour, market trends, and operational performance. This data-driven approach enables companies to make more informed decisions, optimize strategies, and anticipate future needs.

Collaboration tools are essential for integrating digital models into business operations, especially in today's increasingly remote work environment. Tools like Slack, Microsoft Teams, and Zoom facilitate



communication and collaboration among team members, regardless of their physical location. This not only improves workflow efficiency but also fosters a more connected and engaged workforce.

Finally, digital models are incorporated into business operations by fostering a digital-first culture. This involves encouraging employees to embrace digital tools, experiment with new technologies, and continuously learn and adapt. Organizations that cultivate a culture of innovation are better positioned to leverage digital models and drive long-term growth.

What is Digital Business Environment?

The digital business environment refers to the ecosystem in which digital businesses operate, characterized by rapid technological advancements, increased connectivity, and evolving consumer expectations. This environment is shaped by various factors, including digital technologies, regulatory frameworks, competitive dynamics, and market trends. Understanding the digital business environment is crucial for organizations looking to thrive in the digital age.

One of the defining features of the digital business environment is its dynamism. Technologies such as artificial intelligence, blockchain, and the Internet of Things are continuously evolving, creating new opportunities and challenges for businesses. Companies must stay abreast of these technological developments and be ready to adapt their strategies to remain competitive.

Connectivity is another key aspect of the digital business environment. The widespread use of the internet and mobile devices has transformed how businesses interact with customers, suppliers, and other stakeholders. Digital platforms and social media have created new channels for communication and marketing, allowing businesses to reach global audiences and engage with customers in real time.

The digital business environment also involves navigating regulatory frameworks. Governments around the world are increasingly focused on digital regulation, particularly in areas such as data protection, cybersecurity, and digital taxation. Businesses must comply with these regulations to avoid legal repercussions and maintain customer trust. This requires staying informed about regulatory changes and implementing robust compliance measures.

Competitive dynamics in the digital business environment are often more intense than in traditional markets. Digital technologies lower barriers to entry, allowing new competitors to emerge quickly and disrupt established players. Businesses must be agile and innovative to stay ahead of the competition, often leveraging digital tools to differentiate their offerings and create unique value propositions.

Finally, the digital business environment is influenced by changing consumer behaviours and expectations. Today's customers are more informed, connected, and empowered than ever before. They expect seamless, personalized experiences across all digital touchpoints. Businesses must prioritize customer experience and continuously innovate to meet these evolving expectations.



Use of Digital Technologies:

Cloud Computing

Cloud computing refers to the delivery of computing services—including servers, storage, databases, networking, software, and analytics—over the internet ("the cloud"). Instead of owning and maintaining physical data centres and servers, businesses can rent access to these services from cloud providers such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud. Cloud computing allows for scalable, flexible, and cost-efficient IT solutions, as businesses pay for only what they use, without the need to invest in expensive hardware upfront.

Cloud computing services are typically categorized into three models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). IaaS provides fundamental computing resources such as virtual machines and storage, PaaS offers development platforms and tools, and SaaS delivers fully functional software applications over the internet. Cloud computing has transformed the way businesses approach technology, enabling them to operate with greater efficiency and agility.

In digital business, cloud computing is a cornerstone of innovation. It allows businesses to scale their operations globally without the constraints of physical infrastructure. For instance, an e-commerce company can quickly expand its reach to new markets by deploying services in multiple geographic regions, all without setting up new data centres. This scalability supports rapid business growth and ensures that digital businesses can handle varying workloads, especially during peak periods like holiday shopping seasons.

Moreover, cloud computing enhances collaboration and productivity in digital businesses. Cloud-based tools, such as collaborative document editing and video conferencing platforms, make it easier for teams to work together in real-time, regardless of their location. This is particularly valuable for remote work setups, which have become more common in recent years. Cloud-based project management platforms enable businesses to coordinate teams and projects across time zones, ensuring efficient workflows.

Another significant benefit is the cost-efficiency and flexibility that cloud computing offers to digital businesses. By opting for a pay-as-you-go model, businesses can minimize upfront costs, reduce ongoing operational expenses, and free up resources for innovation. Startups and small businesses, in particular, benefit from cloud computing by being able to access high-performance computing resources that were previously available only to larger enterprises

Digital Tech for Communication

Digital technology for communication encompasses the tools and platforms that facilitate the exchange of information in a digital format. This includes technologies like email, instant messaging, video conferencing, and social media. As businesses and individuals become more connected through the internet, digital communication tools have become essential for facilitating conversations, collaborations, and transactions.

These technologies are used for both internal and external communication within businesses. Internally, they help teams communicate in real-time, share files, and collaborate on projects. Externally, businesses

