



The curriculum for this stage of students' education has been designed for Learners who want to acquire technical knowledge and technical skills through vocational contexts by studying the knowledge, understanding and skills related to data management, data interpretation, data presentation and data protection as part of their Key Stage 4 learning.

<p>HALF TERM 1: Component 3 Impact of Modern Technology</p> <p>STUDENTS MUST KNOW:</p> <ul style="list-style-type: none"> Modern technologies: Understand how and why modern technologies are used by organisations and stakeholders to access and manipulate data. Impact of modern technologies: Learners should understand how modern technologies impact on the way organisations perform tasks. Learners should understand how technologies are used to manage teams, to enable stakeholders to access tools and services, and to communicate effectively. Threats to data: Learners should understand why systems are attacked, the nature of attacks and how they occur, and the potential impact of breaches in security on the organisation and stakeholders. <p>HOW THIS WILL BE ASSESSED: Written externally assessed examination.</p>	<p>HALF TERM 2: Component 3 Cyber security</p> <p>STUDENTS MUST KNOW:</p> <ul style="list-style-type: none"> The Threats to data: Learners should understand why systems are attacked, the nature of attacks and how they occur, and the potential impact of breaches in security on the organisation and stakeholders. The Prevention and management of threats to data: How different measures can be implemented to protect digital systems. They should understand the purpose of different systems and how their features and functionality protect digital systems. Policy: Understand the content that constitutes a good security policy and how it is communicated to individuals in an organisation to ensure that potential threats and the impact of security breaches are minimised. <p>HOW THIS WILL BE ASSESSED: Written externally assessed examination.</p>	<p>HALF TERM 3: Component 3 Legal and Ethical Issues</p> <p>STUDENTS MUST KNOW:</p> <ul style="list-style-type: none"> Responsible use: Learners should consider the responsible use of digital systems, including how systems and services share and exchange data as well as the environmental considerations of increased use. Legal and ethical: Learners should understand the scope and purpose of legislation (valid at time of delivery) that governs the use of digital systems and data, and how it has an impact on the ways in which organisations use and implement digital systems. <p>HOW THIS WILL BE ASSESSED: Written externally assessed examination.</p>
<p>HALF TERM 4: Component 3 Planning and Communication</p> <p>STUDENTS MUST KNOW:</p> <ul style="list-style-type: none"> Planning and communication in digital systems Learners should understand how individuals in the digital sector plan solutions and communicate meaning and intention. They should understand how different forms of written and diagrammatical communication can be used to express understanding and demonstrate the flow of data and information. <p>HOW THIS WILL BE ASSESSED: Written externally assessed examination.</p>	<p>HALF TERM 5: Final submission of Coursework / examination re-sits</p>	<p>HALF TERM 6: Examination</p>
<p>Embedding this knowledge can be supported by cross curricular experiences as well as developing computational thinking skills by use of programs such as Serif WebPlus and Microsoft Excel. Using the Micro-bit or getting a Raspberry Pi will also help develop programming skills and computational thinking.</p>		