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Course Name: Digital Technology

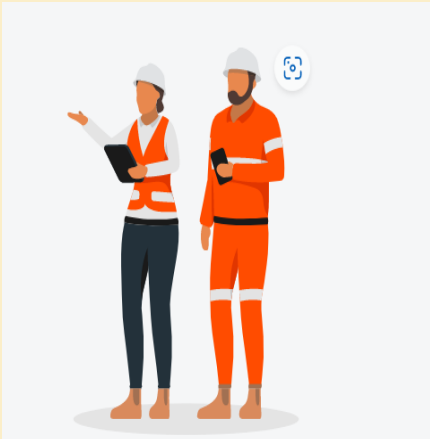
Aim: Create promotional flyer for
construction software and digital
technology

WELCOME TO THE WORLD OF CONSTRUCTION USING DIGITAL TECHNOLOGY AND SOFTWARE....



What is construction software and digital technology

- Construction software is any software that is designed and built specifically for the construction industry.
- Construction companies use many kinds of software and digital technology, including accounting and financial as well as standard project management software.
- These software and systems are designed specifically for companies in the construction industry (Sitemate, 2022).



- Estimating
- Accounting
- Project management
- Scheduling
- Design and Architecture
- Buying and implementing
- Drone
- Cloud based
- Building information modelling (BIM)
- Artificial intelligent
- Lidar
- Connected hardhats
- (UK Connect, 2021)

Different types of software and digital technologies use in construction



- Every construction project has some extremely distinct and specific jobs.
- Some of them can be categorised and put together based on their design and workflows.
- Construction scheduling software is another software that is used from the beginning to the finishing of a project, scheduling is a continuous and crucial component of managing any construction project.
- The following features can be expected from this software such as tracking the budget and cost of job, the scheduling of jobs and projects and task management.
- (Dowd & Marsh, 2020)

DRONE TECHNOLOGY.

Small Unmanned Aircraft Systems (sUAS), also known as drones, are revolutionising construction, and



particularly construction surveys. When it comes to small, unmanned aircraft systems (sUAS), or drones, the construction sector has evolved quickly in response to the need for improved efficiency across the board in the business model (Williamson III, 2019).

CONNECTED HARDHAT TECHNOLOGY



Connected hardhats can detect signs of overheating or dizziness in workers by tracking their location, temperature and their motion. This device also has the ability to detect when a worker has fallen and to alert first responders in an emergency situation

(UK CONNECT, 2021)

LIDAR.

Distances can be measured by lighting the target with a laser light and measuring the reflection with a sensor that can be found on a variety of building site equipment (WeBuild, 2020).

AI (artificial intelligence).

The capacity to accelerate planning and improve overall operations is something artificial intelligence can provide for the construction sector (Walch, 2020).

BIM

3D model-based programme called building information modelling (BIM) is used to produce a digital representation of a building (Patil, et al., 2019).

