

SUBJECT: BTEC Tech Award Digital IT

UNIT: Component 3: Modern Technologies



Communication technologies:

- Setting up ad hoc networks security issues with open networks
- Performance issues with ad hoc networks
- Issues affecting network availability

Features and uses of cloud storage:

- Setting and sharing of access rights
- Synchronisation of cloud and individual devices
- Availability (24/7)
- Scalability

Features and uses of cloud computing:

- Online applications
- Consistency of version between users single shared instance of a file
- Collaboration tools/features.

How the selection of platforms and services impacts on the use of cloud technologies:

- Number and complexity of features
- Paid for versus free
- Interface design
- Available devices.

How cloud and 'traditional' systems are used together:

- Device synchronisation
- Online/offline working
- Notifications.

Implications for organisations when choosing cloud technologies:

- Consideration of disaster recovery policies
- Security of data
- Compatibility
- Maintenance
- Getting a service/storage up and running quickly
- Performance considerations

Changes to modern teams facilitated by modern technologies:

- World teams
- Multicultural
- Inclusivity
- 24/7/365
- Flexibility

How modern technologies can be used to manage modern teams:

- Collaboration tools
- Communication tools
- Scheduling and planning tools.

How organisations use modern technologies to communicate with stakeholders:

- Communication platforms
- Selection of appropriate communication channels for sharing information, data and media.

How modern technologies aid inclusivity and accessibility:

- Interface design
- Accessibility features
- Flexibility of work hours and locations.

Positive and negative impacts of modern technologies on organisations in terms of:

- Required infrastructure
- Demand on infrastructure of chosen tools/platforms
- Availability of infrastructure
- 24/7 access or security of distributed/dispersed data
- Collaboration or inclusivity
- Accessibility
- Remote working.

Positive and negative impacts of modern technologies on individuals:

- Flexibility
- Working styles
- Impact on individual's mental wellbeing