

WJEC Level 1/2 Vocational Award in ICT

Exam details: Unit 1 – ICT in Society

Duration: On-screen examination: 1 hour 20 minutes

Marks: 40% of qualification

Learning Objective 1.1 – How IT can be used to fulfil the needs of organisations and individuals.

Unit	Title	I can do this
1.1.1	Functionality of different hardware devices	
	IOS devices (Input, Output and Storage)	
	Basic Internal Components of a Computer (CPU, RAM, Motherboard)	
1.1.2	Functionality of different software	
	Systems Software (Windows, Android and IOS)	
	Application Software (Apps like Office, Google Chrome and Serif)	
	Utility Software (Antivirus)	
1.1.3	Services provided by IT	
	Online Gaming	
	Social Networking	
	Mobile Phones	
	Banking	
	E-Commerce	

Learning Objective 1.2 - How data and information is used and transferred.

Unit	Title	I can do this
1.2.1	Why data must be fit for purpose?	
	Data quality	
	Encoding data	
	Advantages & Disadvantages of using ICT to store data	
	File Types	
	Data Compression Lossy / Lossless	
1.2.2	How input data is checked for errors	
	Data capture methods	
	Methods used for verification and validation	
1.2.3	How data transfers over different networks	
	Local Area Network (LAN)	
	Wide Area Network (WAN)	
	Protocols (HTTP, HTTPS, SMTP, POP, IMAP)	
	Network topologies Bus, Star, Ring, Mesh	
	Devices within a network (Switch, Router, Hub)	
	Threats to data transfer (Ransomware, Phishing)	
	Cloud vs Servers	
1.2.4	Different types of connectivity	
	Connection methods Short, Medium and Long	
	Types of USB	

Learning Objective 1.3 - Legal, Moral, Ethical, Cultural and Environmental impacts of IT and the need for cybersecurity.

Unit	Title	I can do this
1.3.1	Risks to information held on computers. Malicious software, Hacking	
1.3.2	The impact of data loss on individuals and businesses	
	Financial implications	
	GDPR	
	Competitor advantage	
1.3.3	Methods used to protect information	
	Logical protection (access levels, password protection, firewalls, encryption)	
	Physical protection (Locks, location of hardware, security staff, backup system)	
1.3.4	Moral and Ethical issues affecting computer users.	
	Privacy and Security, Copyright and Intellectual Property.	
	Cookies	
	Monitoring employees	
1.3.5	How legal issues protect computer users	
	Data Protection and GDPR	
	Computer Misuse Act	
	Copyright Act	
	Health and Safety Legislation	
1.3.6	The cultural, personal and environmental impact of ICT	
	Employment patterns	
	Retraining	
	Changes in working practice (Collaboration, hot desking, Teleworking)	
	Social media	
	Cyber bullying	
1.3.7	Digital Footprints	
	Posts on social media	
	Online and identity theft	