

# ICT

## OCR Level 3 Cambridge Technical Introductory Diploma in IT



### Examination Board: OCR

#### Course content:

The Cambridge Technical qualifications offer opportunities to develop the skills demanded by employers in the UK today. These vocationally-related diplomas are included in the Qualifications and Credit Framework. Learners will have the opportunity to acquire essential knowledge and tools for the world of work, developing transferable skills such as planning, research and analysis, working with others and effective communication.

All learners will study the following units; Fundamentals of IT, Social media and digital marketing and Global Information, Cyber Security and Virtual and augmented reality. These units provide learners with an insight into the IT sector, as they investigate the pace of technological change, IT infrastructure, and the flow of information on a global scale, as well as the important legal and security considerations.

#### Unit 1 Fundamentals of IT (exam 90GLH) 1 hour 30 minutes written paper

- Types of computer system
- Communications hardware
- Hardware troubleshooting
- Number systems and conversion
- Types of software
- Communication methods
- Software troubleshooting
- Protocols
- Virtualisation
- Communication skills and technology
- Personal attributes and job roles
- Professional bodies
- Ethical issues
- Threats and security
- Safe disposal of data and computer equipment

#### Unit 2 Global Information (exam 90GLH) 1 hour 30 minutes written paper

- Types of information storage media
- Accessibility of world wide web information formats
- Information styles and their uses
- Information management
- UK and global accessibility legislation relating to information
- Information sources and data types
- Protection measure policies

#### Units 3 Cyber security (exam 60GLH) 1 hour 15 minutes written paper

- How Cyber security aims to protect information
- Types of cyber security incidents
- The importance of cyber security
- Threats to cyber security
- Types of attackers
- Motivation for attackers
- Targets for cyber security threats
- Impacts of cyber security incidents
- Cyber security risk management
- Testing and monitoring measures
- Cyber security controls (access controls)
- Cyber security incident report



### Unit 5 Virtual and augmented reality (project 60GLH)

- Understand virtual and augmented reality and how they may be used
- Be able to design virtual and augmented reality resources
- Be able to create a virtual or augmented reality resource
- Be able to predict future applications for virtual and augmented reality.

### Unit 13 Social media and digital marketing (project 60GLH)

- Understand digital marketing
- Understand the use of social media in a business
- Be able to plan content and propose appropriate social media channels for digital marketing campaigns
- Be able to develop social media digital marketing campaigns

### Aims:

The aims of the OCR Cambridge Technicals are to widen participation in vocational or work-related learning with a view to equipping learners with skills they will need in the workplace or in Further Education and training. They will also allow students to experience vocationally related learning to see if it is suitable for them.

### Possible careers:

These qualifications are designed to enable learners to enter employment at an operative or trainee level within a wide range of Information and Communication Technology environments. Such learners would normally enter employment through a work-related training programme. The OCR Cambridge Technicals in ICT have been designed to provide a broad educational basis for Further Education or for moving into employment within the ICT sector. Students will develop the general skills, knowledge and understanding needed within the sector. Cyber Security apprenticeships at places like GCHQ are a popular destination for students who study this qualification.

### Grading:

Depending on the GLH value, the Unit will have a value depending on the grade obtained based on the table below:

Unit GLH	pass	merit	distinction	unclassified
30	7	8	9	0
60	14	16	18	0
90	21	24	27	0

All 5 Units will combine so that the learner will be awarded an overall grade based on the table below:

Points range	Grade	
104 and above	Distinction*	D*
100 – 103	Distinction	D
92 – 99	Merit	M
84 – 91	Pass	P
Below 84	Unclassified	U