

Course Title: OCR Level 3 Cambridge Technical Introductory Diploma in IT

A Level equivalency: 1

How will this course be assessed? 2 externally assessed written exams and 3 internally marked and assessed units of coursework

OCR Level 3 Cambridge Technical Introductory Diploma

UCAS tariff points awarded

D* = 140 D = 120 M = 80 P = 40

For this qualification learners must achieve five units and follow one specialist pathway.

Key M = Mandatory unit Learners must achieve all of these units

O = Optional unit Learners must achieve two optional units in their chosen pathway

E = External assessment

I = Internal assessment

IT Infrastructure Technician pathway

Typical job roles within this pathway include;

IT Technical Support, Database Administrator, Field Technician or Network Technician.

This pathway focuses on the design, implementation and management of an organisation's IT Infrastructure. Plus, the activities and roles that are carried out in the workplace such as selecting hardware and software for clients, and learning how to build, upgrade or develop computer systems and networks that are safe and secure.

Learners will take the designated mandatory unit for this pathway - Computer networks unit 4. This unit will give learners the practical ability to plan, implement and maintain computer networks building the key skills, knowledge and understanding relevant to job roles in this field. Learners will then take two optional units. The optional units to choose from include: *Cyber security, Project management, Product development, Systems analysis and design, Mobile technology, Developing a Smarter Planet, Internet of Everything, Computer systems – hardware, Computer systems – software and IT technical support*. The optional units will draw on the knowledge acquired from the mandatory units and will further enhance learners' knowledge, skills and understanding with respect to the selection of hardware and software to meet the needs of clients. Learners will be able to build, upgrade or develop computer systems and networks, taking into consideration the requirements of the stakeholders

Units to be covered:

Unit 1 Fundamentals of IT (M) (E)

Unit 2 Global information (M) (E)

Unit 4 Computer networks (M) (I)

Unit 12 Mobile technology (O) (I)

Unit 18 Computer systems – hardware (O) (I)

Course outline:

During Year 12, you will be taking 2 externally assessed units 1 and 2, and 2 internally assessed units 4 and 18. Unit 18 requires that you undertake work experience in the technical field, usually a local computer repair shop.

The externally assessed units will be run alongside the internally assessed units as the content crosses over.

PPE's will be completed in January 2019 for both exam papers. Both papers will be sat in June with the OCR exam board. (You have a resit for both papers in June 2020 in yr. 13) Each paper is marked out of 80

Unit 4: Computer networks is internally assessed and externally moderated. The emphasis of this unit is to give you practical ability to plan, implement and maintain computer networks. The approach adopted by this unit is where you begin with a solid set of components, cables and connectors of a network and then progressively build a networking capability.

Unit 18: Computer systems is internally assessed and externally moderated. The aim of this unit is to enable you to understand how the components of computer systems work together. You will develop the skills needed to recommend appropriate hardware systems for various purposes.

Unit 12: Computer systems is internally assessed and externally moderated. The aim of this unit is to broaden your knowledge and understanding of the wider potential of mobile technologies and its consequences to people and businesses. This unit is as much about new technologies as it is about promoting critical analysis of existing situations and proposing better solutions.

Task:

One aspect of the Unit 18 content is the different types of backup storage available e.g.

- Pen drives
- Optical media
- Flash memory cards
- Cloud
- Portable and fixed drives

You are required to outline the characteristics, advantages and disadvantages of each, paying attention to performance factors e.g security, capacity and transfer rates)