IT Roadmap: Cam. Techs. L3 Ext. Cert. OCR 05839 (Years 12/13)

Subject Aim: This qualification is designed for learners 16 years old or over who want to continue their education through applied learning by developing their knowledge and understanding of the principles of IT and global information systems. Achievement of this qualification can support progression to go on and study relevant IT degrees in a Higher Education institutions.

Contacts

Enterprise Department: Mr Eyre. Based in the Enterprise Office (the portakabin in the quad next to the main hall, up the ramp, room 27). Student issues - please do not hesitate to ask for help (your teacher and/or at the Enterprise Office). We also run "drop-in" sessions (open to students for any help / questions etc.) in CR3 on Monday, Tuesday and Wednesday after school

Overview

The course is made up of **three** externally **examined** units and **two** further **coursework** units that are assessed by your teachers and moderated by the exam board.

Year 12: You will study Unit 1 Fundamentals of IT and Unit 2 Global Information. These units are mandatory and externally assessed. Unit 1 develops a sound understanding of IT technologies and practices essential for IT professionals. It provides a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how business uses IT. Unit 2 allows students to demonstrate the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations. Unit 1 & 2 are both worth 50% of your first year course and contribute to 50% (combined) to your overall qualification.

Year 13: You will study Unit 3 Cyber Security, Unit 8 Project Management and Unit 17 Internet of Everything. Unit 3 Cyber Security is externally assessed whilst Unit 8 and 17 are Internally assessed. Unit 3 allows students to gain knowledge and understanding of the range of threats, vulnerabilities and risks that impact on both individuals and organisations. Unit 8 gives students the opportunity to understand and use various project planning skills and techniques. Unit 17 is about the use of the internet and how it is impacting people and society. Students will study for a potential idea and pitch their idea to potential stakeholders.

IT OCR Specification

[CLICK ME: OCR 05839 Cambridge Technicals L3 Extended Certificate in Information Technologies](#)

Examined Elements

Unit 1 (Year 12) 25%	Unit 2 (Year 12) 25%	Unit 3 (Year 13) 16.66%
Fundamentals of IT • Worth 50% of Year 12 & 25% overall • Written Exam (MC/short/med/long answer questions) • OCR set and marked • 1hr 30 minutes / 80 marks • January and June sittings • You can take twice - best mark used **LO1** Understand computer hardware **LO2** Understand computer software **LO3** Understand business IT systems **LO4** Understand employability and communication skills used in an IT environment **LO5** Understand ethical and operational issues and threats to computer systems	**Global Information** • Worth 50% of Year 12 & 25% overall • Written Exam (short/med/long answer questions) • Pre-Release Scenario ~ 50% of exam • OCR set and marked • 1hr 30 minutes / 80 marks • January and June sittings • You can take twice - best mark used **LO1** Understand where information is held globally and how it is transmitted **LO2** Understand the styles, classification and the management of global information **LO3** Understand the use of global information and the benefits to individuals and organisations **LO4** Understand the legal and regulatory framework governing the storage and use of global information **LO5** Understand the process flow of information **LO6** Understand the principles of information security	**Cyber Security** • Worth 33.33% of Year 13 & 16.66% overall • Written Exam (short/med/long answer questions) • Pre-Release Scenario ~ 50% of exam • OCR set and marked • 1hr / 60 marks • January and June sittings • You can take twice - best mark used **LO1** Understand what is meant by cyber security **LO2** Understand the issues surrounding cyber security **LO3** Understand measures used to protect against cyber security incidents **LO4** Understand how to manage cyber security incidents

Coursework Elements (End of Year 12 into Year 13)

Unit 8 (16.66%)	Unit 17 (16.66%)
Project Management Worth 33.33 of Year 13 & 16.66% overall • Coursework • Teacher marked / assessed and OCR moderated • Completed during lessons / own time • Split into 6 Pass Tasks, 3 Merit Tasks and 2 Distinction Tasks **LO1** Understand the project life cycle **LO2** Be able to initiate and plan projects **LO3** Be able to execute projects **LO4** Be able to carry out project evaluations	**Internet of Everything (IoE)** Worth 33.33 of Year 13 & 16.66% overall • Coursework • Teacher marked / assessed and OCR moderated • Completed during lessons / own time • Split into 5 Pass Tasks, 3 Merit Tasks and 2 Distinction Tasks **LO1** Understand what is meant by the Internet of Everything (IoE) **LO2** Be able to repurpose technologies to extend the scope of the IoE **LO3** Be able to present concept ideas for repurposed developments

	TOPICS (Year 12)	ASSESSMENT (Year 12 & Year 13)
AUTUMN TERM	Unit 1 Exam (See above)	You are regularly assessed in two ways: 1). End of unit tests (Examined elements only). Once all activities for a unit are complete (LO = Learning Objective), you will have a written test during the lesson. Tests will consist of both long and short answer questions and will match the format of the relevant exam 2). Homework: Mostly involves research and lesson preparation, this includes completion of VIN note sections and preparation for tests / exams You will be marked using the Cambridge Technicals Grading Scheme – For more info, see the Specification

	TOPICS (Year 12)	HOMEWORK (Year 12 & Year 13)
SPRING TERM	Unit 2 Exam (See above)	Homework will be set regularly usually in these categories: • Maintaining skills over the holidays • At the end of each Exam Unit LO Theory Section there will be "revision homework" in preparation for the test • Exam Prep homework such as making "Flash Cards" and Doing Past Papers • Finishing VINs sections - work started in class to complete for homework • VINs checkpoints to ensure their quality / quantity • Watching Videos / Doing Research as: backup / background / "extras" to lessons • Coursework Tasks (U8 & U17) • Maintaining skills over the holidays

	TOPICS (Year 12)	ASSESSMENT REVISION (Year 12 & Year 13)
SUMMER TERM	Unit 2 Exam (See above) – May/ June Start U8 & U17 Coursework (See above)	Full details of any assessment, how to revise for it and the revision materials available will be accessible from the Brightspace course homepage

		ENRICHMENT (Year 12 & Year 13)
		There will always be opportunities to go "further than the course" and these will be accessible from the Brightspace course homepage

Where next from Year 12 IT?

The course continues into Year 13, where you will undertake the Coursework units: U8 & U17, as well as your Unit 3: Cyber Security exam in January. You will then complete the Coursework from January until you leave in May, with the possibility of finishing sooner if you have all the exam results you require and have finished all the Coursework

TOPICS (Year 13)

AUTUMN TERM

U8 Coursework (see above)
U17 Coursework (see above)
U3 Exam (see above)

TOPICS (Year 13)

SPRING TERM

U3 Exam (January)
U8 Coursework (see above)
U17 Coursework (see above)
Jan Exam results in March
Decide on course of action: 100% Finished? Remark? Retake/s?
Finish U8 & U17

TOPICS (Year 13)

SUMMER TERM

Continue with course of action until leaving date