

## OCR L3 Cambridge Technicals - Introductory Diploma in IT

### Y12-Y13 Summer Independent Learning 2021 – Compulsory Content

#### Unit 19 - Computer Systems (Software)

#### LO1: Understand different software installations and their purpose

	Pass	Merit	Distinction
1. Understand different software installations and their purpose	P1: Explain the purposes of different systems software	M1: Compare the features and functions of different system software	
	P2: Outline the different application software available for end users		
	P3: Describe the reasons for carrying out software installations and upgrades		D1: Assess different types of software installations

For all tasks, please remember that you must reference all sources appropriately and provide a clear, detailed bibliography.

#### **Task 1:** A Power Point Presentation – P1

You need to produce a PowerPoint Presentation, which explains the different types of system software in the list below. This could include screenshots of each type with examples and explain what it is for/does.

- operating systems:
  - open (e.g. Linux)
  - closed (e.g. Windows)
- utility programs
- library programs
- translator software

#### **Task 2:** A Comparison Table – M1

Produce a table that compares the features and functions between the following operating systems:

- Windows 10
- A Linux distribution of your choice
- The latest version of Mac OS X

### **Task 3:** A PowerPoint Presentation – P2

You need to create a PowerPoint Presentation that outlines the different application software that is available for end users. As part of each of the categories below, detail example software that would make up that section, with images and links as appropriate.

Categories of Application:

- general purpose (e.g. off the shelf software such as Microsoft Office)
- special purpose (e.g. payroll software)
- bespoke (e.g. written specifically to meet a particular client's needs)

### **Task 4:** A Report - P3

You should prepare a report that describes the reasons for carrying out software installations and upgrades. The outline should include a description of each of the reasons below (using examples), which includes the main characteristics/points.

Reasons for installation or upgrade, i.e.:

- improvement to system (e.g. stability, performance, security, productivity)
- resolve issues (e.g. viruses, conflicts etc.)
- address risks (e.g. loss of data, loss of service, system downtime, costs)
- security risks (e.g. prevention, rectification)
- access to additional features/functions
- support installation of new hardware
- address end user requirements

### **Task 5:** A Report – D1

You must prepare a report that assesses the different types of software installation. The discussions should include a variety of ideas and arguments as to why certain types of software installation are more appropriate than others. You should discuss all of the types of software installation and include examples of where and how they are used.

Types of installation, i.e.:

- creating image/ghosting (e.g. make a copy of the hard drive configuration and software)
- unattended installation
- upgrade
- clean install
- repair installation
- multi-boot
- remote network installation
- image deployment
- Windows networking
- Mobile device networking connectivity and email

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## **Additional Content**

The work in this section is not compulsory but it is strongly recommended that you complete the below tasks as they will help to inform possible progression routes and develop your holistic knowledge of IT in a real-world context. Again, remember to reference all sources and provide a detailed bibliography.

### **Task 1 - IT-Related Jobs & Careers**

Research two or three possible IT-related jobs/careers that you think you may be interested in pursuing in future. From this selection, choose the one that interests you the most. Produce a document of your choice (poster/infographic/presentation etc.) that includes the following information:

- A summary of your chosen job/career
- Brief responsibilities associated with the role
- Qualification, skills and experience needed for the role
- Approximate potential salary and other benefits
- Future career prospects
- Anything else you feel is relevant

For the next task, choose **one** of the following (2a or 2b):

### **Task 2a – History of Computers**

Research the history of computers and produce a document of your choice that summarises the pivotal breakthroughs, key individuals and defining moments in the development of the incredible devices we have come to know and depend on today. The document you produce could be a timeline, infographic, poster, presentation etc.

### **Task 2b – History of the Internet/WWW**

Research the history of the internet/WWW and produce a document of your choice that summarises the pivotal breakthroughs, key individuals and defining moments in the development of the amazing global resource we have come to know and depend on today. The document you produce could be a timeline, infographic, poster, presentation etc.