OCR Cambridge Technicals level 3 · IT



Year 12 - Summer Task

Create a learning/revision app on **two specification sections** from Learning Objective 1 of Unit 1 – Fundamentals of IT.

Go to the website: <u>https://thunkable.com/#/</u>

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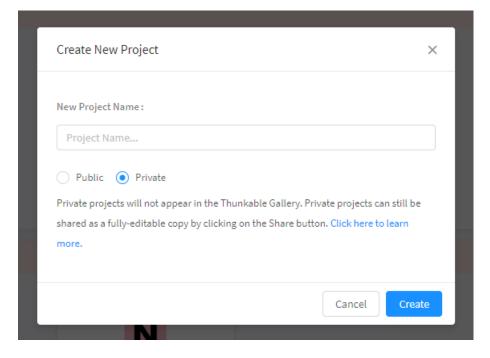
Click on 'Get Started' then create an account (you will need a Google account to link it to):

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Select 'Create New App'.



Give the project a suitable name and for now make it private, then click 'Create;.



Watch the tutorials (down the left hand side) to understand the basics of the software. There is also a help menu with a YouTube link if you get really stuck.

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https://docs.thunkable.com/thunkable-cross-platform/get-started/tutorials

Learning outcomes	Teaching content
The Learner will:	Learners must be taught:
 Understand computer hardware 	 1.1 Computer hardware, i.e.: input devices output devices communications devices benefits (e.g. integrated devices make portable devices simpler to use) limitations (e.g. voice recognition performs poorly in noisy environments) uses (e.g. membrane keyboard could be used in harsh physical environments) 1.2 Computer components, i.e.: processors motherboards storage (i.e. hard drive, solid state, flash, internal, removable, SAS, SCSI, portable, Cloud) ports (i.e. USB, Firewire, SATA, Network, Fibre Channel) memory (i.e. RAM, ROM, cache)

Learning outcomes	Teaching content
The Learner will:	Learners must be taught:
	 expansion cards (i.e. sound, network, graphics, storage controller, fibre channel) power supplies characteristics purpose 1.3 Types of computer system, i.e.: desktop/server tablet/hybrid smartphone embedded system/Internet of Things (e.g. cars, home appliances, etc.) mainframe quantum uses (e.g. tablet device can be used when travelling due to physical properties) benefits (e.g. desktop computer can have a large screen which can improve productivity) limitations (e.g. mainframes can be expensive to purchase and maintain)
	 1.4 Connectivity methods, i.e.: copper fibre wireless technologies (i.e. Bluetooth, WiFi, microwave, infrared, laser, Satellite, GSM, 3G/4G and future technologies) characteristics purpose

Learning outcomes	Teaching content
The Learner will:	Learners must be taught:
	 1.5 Communications hardware, i.e.: hub switch router modem wireless access point combined/hybrid devices characteristics purpose and use 1.6 Hardware troubleshooting, i.e.: identifying hardware faults troubleshooting tools documentation/fault management 1.7 Units of measurement, i.e.: bit, nibble, byte metric (i.e. kilo, mega, giga, tera, peta) binary (i.e. kibi, mebi, gibi, tebi, pebi) comparison in sizes between metric and binary measurements. e.g. 1 kilobyte = 1000 bytes vs 1024 bytes 1.8 Number systems, i.e.: binary decimal hexadecimal 1.9 Number conversion, i.e.: converting between binary, decimal and
	 identifying hardware faults troubleshooting tools documentation/fault management 1.7 Units of measurement, i.e.: bit, nibble, byte metric (i.e. kilo, mega, giga, tera, peta) binary (i.e. kibi, mebi, gibi, tebi, pebi) comparison in sizes between metric and binary measurements. e.g. 1 kilobyte = 1000 bytes vs 1024 bytes 1.8 Number systems, i.e.: binary decimal hexadecimal