

Digital Technologies

Learner Name	
Course	Pearson BTEC Higher National Certificate in Computing
Awarding Body	BTEC (Pearson)
Module Name(s)	Unit 8 – Computer Systems Architecture (2019 rev)
Assignment Title & Number	Assignment 2 of 2 (LOCKDOWN SUPPLEMENT)
Assessor's Name	John Terry
Hand out Date	2 nd April 2020
Hand in Date	21 st May 2020
Feedback Date	+3 weeks

Assessment Brief IQA by: (Name & Signature)		Assessment Brief sample by Lead IQA: (Name & Signature)	
Date:	??/??/2020	Date	
Specific outcomes and criteria being assessed			
Module	Grading Criteria	Description	
8	P6 (LO3)	Setup, configure and document appropriate hardware and software systems to establish computer based network connectivity.	
8	P7 (LO4)	Use information gathering methods to assess, troubleshoot and document solutions to a number of different technical hardware, software and networking issues.	
8	P8 (LO4)	Conduct and document a range of maintenance activities with regards to computer hardware and software.	

English, maths and other Skills for Success covered in this assignment	English Written reports and presentations.	Maths -	Skills for Success Describing and explaining concepts
Learner submission sampled by IQA: (Name and signature)		Learner submission sampled by Lead IQA: (Name and signature)	
Date		Date	

COPYING DISCLAIMER

I confirm that all the work contained in this assignment, being presented for assessment, is my own work.

I also confirm that I have not copied this work from other people's papers, electronically from their disk, from textbooks, CD ROM or from the Internet.

I also understand that if I hand in an assignment that has work in it that has been copied, this will be subject to disciplinary action and may cause me to lose my place on the course.

Student Signature:		Date:	
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Assessor declaration	I certify that the evidence submitted for this assignment is the learner's own. The learner has clearly referenced any sources used in the work. I understand that false declaration is a form of malpractice.		
Assessor signature	John Terry	Date	
Date of feedback to learner			
Resubmission authorisation by Lead Internal Quality Assurer*		Date	
<p>* All resubmissions must be authorised by the Lead Internal Verifier. Only one resubmission is possible per assignment, providing:</p> <ul style="list-style-type: none">• The learner has met initial deadlines set in the assignment, or has met an agreed deadline extension.• The tutor considers that the learner will be able to provide improved evidence without further guidance.• Evidence submitted for assessment has been authenticated and accompanied by a signed and dated declaration of authenticity by the learner. <p>** Any resubmission evidence must be submitted within 10 working days of receipt of results of assessment.</p>			

Vocational Scenario

You are freelancing in IT consultancy in the Milton Keynes area working across hardware, software and networking disciplines. Please read through the task below for scenarios / problems to solve.

Please see question on the next page...

Task 3	<p>Grading Criteria Covered:</p> <p>Unit 8: P6 (LO3) Setup, configure and document appropriate hardware and software systems to establish computer based network connectivity.</p> <p>Unit 8: P7 (LO4) Use information gathering methods to assess, troubleshoot and document solutions to a number of different technical hardware, software and networking issues.</p> <p>Unit 8: P8 (LO4) Conduct and document a range of maintenance activities with regards to computer hardware and software.</p>
Evidence Required	Observation, captioned photos uploaded as secondary evidence uploaded in a Word document.

You will need to provide evidence of undertaking a number of activities. You should provide photographs and screen shots to document these tasks and caption them in a document to accompany this observation:

- **FOR P6:**
 - Set up, configure and document the linking of your computer to your router wirelessly, to connect your mobile phone or tablet to your router and then perhaps a wireless printer to your router including the configuration steps. Take screen shots on your different devices to show this.
 - Use ping and other troubleshooting tools in order to make sure that you have both a local connection to the above network as well as a connection to the internet.
- **FOR P7:**
- Pick **one** hardware, **one** software and **one** networking issue from the list below to research and give a solution to including where screen shots of where you found your solutions in the research carried out.
 - **HARDWARE 1:** A Dell Inspiron 530 is having problems powering up. When trying to turn the machine on, the computer gives 6 short beeps, waits and then repeats this. Nothing is displayed on the screen.
 - **HARDWARE 2:** A machine you are looking at does not appear to switch on or have any LEDs glow on the front. You have discovered that the motherboard in the machine is a Gigabyte B450M DS3H. It appears that the front panel connectors have been disconnected, but you don't know where they connect.
 - **SOFTWARE 1:** Windows Update has failed with an error code of 0x8007000e.
 - **SOFTWARE 2:** Machine seems to be bluescreen crashing. Upon checking the logs using BlueScreenView, the crash seems to be caused by e1iq63x64.sys, usually when trying to do something on the network.
 - **NETWORK 1:** You seem to have a connection to the local router, but cannot access any website. You have a Linksys E-Series E900 router.
 - **NETWORK 2:** Your WiFi network connection appears slow and intermittent. You think there might be some kind of signal issue. Give troubleshooting steps.
- **FOR P8:**
 - Perform hardware maintenance on one of your machines at home. Consider removing dust, cleaning, hoovering PSU, replacing something damaged etc.
 - On one of your own machines, carry out software maintenance such as checking for updates, checking the hard drive for errors, clearing temporary files etc. Include screen shots and photos of these sections.