

Digital Technologies

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| Learner Name | |
| Course | Pearson BTEC Higher National Certificate in Computing |
| Awarding Body | BTEC (Pearson) |
| Module Name(s) | Unit 2 – Networking (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 |

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| 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 | |
| 2 | P7 (LO4) | Implement a networked system based on a prepared design. | |
| 2 | M3 (LO3) | Install and configure network services and applications on your choice. | |

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| 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.

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| 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...

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| Task 3 | Grading Criteria Covered: Unit 2: P7 (LO4) Implement a networked system based on a prepared design. Unit 2: M3 (LO3) Install and configure network services and applications on your choice. |
| Evidence Required | Observation, screenshots with annotation uploaded as secondary evidence uploaded in a Word document. |

You have designed a network for MK Agents. You have been asked, along with a colleague, to demonstrate part of that network.

With your choice of hardware and software, implement (install and configure) a networked system and services/applications that include:

- At least two machines – one client and one server.
- Use of two routers and switches to simulate two different sites with associated cables (although the whole design can be used too)
- Your choice of ~~operating system and web~~ server & client, set up and configured.

FOR P7:

- o The implementation of the design will be a simulation of the designed network shown during a Teams 1:1 meeting and recorded so that you can take still shots from it.
- o Packet tracer will be used.
- o You will need to show both local communication within 2 sites along with communication across the network between sites.

• **FOR M3:**

- o As part of your documentation you will need to show the configuration of the devices, the server(s) and the application(s).
- o In this instance, you must use the web server that is included in the SERVER device, along with the Web Browser that is built into the CLIENT devices (laptop/desktop/tablet) Alternatively, of course, an e-mail SERVER and CLIENTS can be set up.
- o Show these working across the network.