**Networking (Advocate: Mike Watkins)**

**P1 Discuss the benefits and constraints of different network types and standards.**

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| <https://github.com/SDearing/Networking#the-benefits-and-constraints-of-network-types-and-standards>  <https://github.com/SDearing/Networking/blob/master/README.md#conceptual-models-osi-and-tcpip>  <https://github.com/SDearing/Networking/blob/master/README.md#standards-and-protocols> |
| In the first link I discuss the benefits and constraints of different network types such as peer-to-peer, client server, cloud and centralised networks.  In the second link I discuss the benefits and constraints of conceptual models OSI and TCP/IP models  In the third link I explain the following standards and protocols IEEE standards, routed protocols and service and network applications. |

**P2 Explain the impact of network topology, communication and bandwidth requirements.**

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| <https://github.com/SDearing/Networking#the-impact-of-networking-topology-communication-and-bandwidth> |
| In this link I explain the impacts of different network topologies, communications and bandwidth requirements. |

**P3 Discuss the operating principles of networking devices and server types.**

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| <https://github.com/SDearing/Networking#operating-principles> |
| In this link I discuss the operating principles of networking devices such as hubs, routers, switches, firewall, HIDS, repeaters and bridges  Also, In the same section I discuss operating principles of server types such as web, file, database and virtualisation servers. |

**P4 Discuss the interdependence of workstation hardware with relevant networking software.**

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| <https://github.com/SDearing/Networking#the-interdepedence-of-workstation-hardware-with-networking-software> |
| This link leads to a section of my networking document where I discuss the interdependence of workstation hardware with relevant networking software. |

**P5 Design a networked system to meet a given specification.**

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| <https://github.com/SDearing/Networking#network-specification>  <https://github.com/SDearing/Networking/blob/master/README.md#concept-design> |
| The first link leads to the specification of my network design.  The second link leads to my network design. |

**P6 Test and evaluate the design to meet the requirements and analyse user feedback.**

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| <https://github.com/SDearing/Networking/blob/master/README.md#user-feedback>  <https://github.com/SDearing/Networking/blob/master/README.md#evaluation-of-design> |
| The first link leads to the user feedback of my design.  The second link leads to an evaluation of my design after I tested it against the specifications. |

**P7 Implement a networked system based on a prepared design.**

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| <https://github.com/SDearing/Networking/blob/master/README.md#implemented-network> |
| This link leads to an implemented network based of my design. |

**P8 Document and analyse test results against expected results.**

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| <https://github.com/SDearing/Networking/blob/master/README.md#testing-the-network> |
| In this link, I show the test plan of my network with the results with any actions taken based on an analysis of the results against the expected results. |

**M1 Compare common networking principles and how protocols enable the effectiveness of networked systems.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**M2 Explore a range of server types and justify the selection of a server, considering a given scenario regarding cost and performance optimisation.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**M3 Install and configure network services and applications on your choice.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**M4 Recommend potential enhancements for the networked systems.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**D1 Considering a given scenario, identify the topology protocol selected for the efficient utilisation of a networking system.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**D2 Design a maintenance schedule to support the networked system.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**D3 Use critical reflection to evaluate own work and justify valid conclusions.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |