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| **Qualification Details** | | | |
| **Training Package Code & Title** | **UEE11 – Electrotechnology Training Package (Release 2.0)** | | |
| **Qualification National Code & Title** | **UEE40720 – Certificate IV in Electronics and**  **Communications** | **State code:** | **BFP4** |
| **UEE40120 – Certificate IV in**  **Computer Systems** | **BFL8** |
| **UEE50520 – Diploma of Electronics and**  **Communications Engineering** | **BFP5** |
| **UEE50120 – Diploma of**  **Computer Systems Engineering** | **BFQ6** |

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| **Assessment Title** *(as per DAP)* | Written Assessment | **Location** | 10F80 |
| **Date Due** | Week 8 | **Date Received** |  |

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| **Student Name** |  |
| **Student Declaration** | I declare that the evidence submitted is my own work: |

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| **Assessor Name** | **Jamal Abu Shnaf** | | | |
| **Assessment Decision** | Satisfactory | | Not Yet Satisfactory | |
| **Is student eligible for reassessment (Re-sit)?** | No | Yes | **Reassessment Date:** |  |
| **Assessor Signature** |  | | **Date** |  |

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| **Feedback to student** | | | |
| See BB | | | |
| **Feedback from student** | | | |
|  | | | |
| **Student signature** |  | **Date** |  |

**Student Instructions**

* Adjustments to assessments may be made for you, providing the adjustments comply with the principles of assessment and rules of evidence.
* You must answer all questions satisfactorily. Answer in the space provided. Use a different font so your answer stands out from the question. Submission must be through Black Board (BB).
* You must ensure that you have answered all parts of a question. You must include at least a paragraph for a 'briefly explain' question. One sentence will be deemed unsatisfactory.
* Feedback will be given through Black Board (BB). In case of not passing this assessment, you can re-sit for another assessment in Week 10 or 20 (the assessor will confirm with you the date).
* You may be asked verbal questions in class to prove authenticity and further proof of understanding of the submitted assessment.

Assume you are working as a Network Technician. You are required to investigate benefits of wireless, standard and properties before you can implement/design wireless networks.

Answer all questions.

1. Explain briefly the term “wireless LAN” What are the benefits of a wireless network? What are the major factors to be considered before implementing a wireless LAN? How is information carried in wireless?
2. What are the main purpose of IEEE 802.11 committee and Wi-Fi Alliance?
3. List five benefits of wireless networking.
4. List the main function of the seven layers of the OSI model.
5. What is a wireless NIC? Research and give two examples of wireless NICs.
6. Briefly explain the functions of an Access Points and a wireless bridge. Conduct a research and Name two available Aps and wireless bridge.
7. Briefly explain what is a network operating system
8. What are four types of internetwork services that Cisco IOS provides?
9. What are the main function of the following components of a network:

a. Wireless NIC card.

b. LAN switch.

c. Wireless Routers.

d. Access Point.

e. Wireless bridge.

f. Wireless controllers.

g. LAN media

h. WAN media

1. What is the industry standard for network protocol? What are the layers of the TCP/IP model.
2. List the set of protocols used for the following network services:

a. WWW

b. E-mail

c. IP-Telephony

1. List the Operating system for the AP and the wireless bridge in your class.
2. List the boot process of the 1252 AP in your class.
3. What installation instructions are available for 1252 AP (or similar AP)? List them briefly.

**End of Assessment**