



**Maldives  
Polytechnic**

# **Assignment Brief**

## **November – 2022**

Student ID No.:

Student Name: ..... Date: .....

# **Operating Systems**

**Subject Code: T003**

**Certificate III in Information Technology**

**Total Marks: 100**

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### **READ THESE INSTRUCTIONS FIRST**

- The total of the marks for this assignment is **100**

- Students are to submit the MS Word.

### **Task A (Total 70 Marks)**

AWB wants to install and setup computer system in their office. You have been hired as a technician and your role is to help the company to choose an operating system and to configure it.

The task assigned for you are the following.

1. Explain the structures of Computer systems **(10 Marks)**
2. Explain them the main fundamental principles of an operating system **(10 Marks)**
3. List out and Compare different types of operating system along with their advantages and disadvantages. **(10 Marks)**
4. Explain the ISO model in operating system **(10 Marks)**
5. Explain the difference between Process Management and Memory Management **(10 Marks)**
6. Explain the basic functions and structures of operating systems including the following **(10 Marks)**
  - a. Process synchronization
  - b. Deadlocks
  - c. CPU scheduling
  - d. Virtual memory
  - e. File-system interface
  - f. File-system implementation
7. Compare three most common operating systems and recommend an operating system for the AWBs computer systems with the hardware of i5 processor that would be used to carry out operations of an office. **(10 Marks)**

### **Task B (Total 30 Marks)**

1. Explain and show the steps with screenshots how to install windows using a Windows installation ISO disc image. **(10 Marks)**

### **Instruction to Students**

1. Please fill all the required entries on assignment cover sheet (Student Name, Student ID, Date submitted).
2. Word count limit 1500.
3. It is a MUST to maintain the word count specified (10% variation is acceptable). Not meeting the criteria for word count can result a penalty.
4. Answers should be clear, specific and self - reflective.
5. DO NOT COPY answers from Internet instead, paraphrase and quote using proper ways.
6. Please be cautious about the structures of the report and the essay.
7. Report needs to be produced with academically accepted formatting guidelines.
  - a. Paper A4
  - b. Font size: Headings 14pt, Bold; Normal font 12pt
  - c. Font Face: Times New Roman or any other Serif Font face.
8. Please note that institute has very strict regulations on unfair practice and failing to follow regulations can result serious penalties.