



**Maldives  
Polytechnic**

## **Assignment Brief**

**November – 2022**

Student ID No.:

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

## **Computer Fundamentals And Troubleshooting**

**Subject Code: IT001**

**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 word document .

## Tasks

You are assigned as a computer technician in ABW Company. The following tasks has been as to you.

**1. ABW needs to build and set up multiple computer system**

1.1. Explain the usage and purpose of the parts and list out essential hardware's that would be required.

**(15 Marks)**

1.2. Explain the steps and how to install and configure the Windows operating systems. **(10 Marks)**

**2. ABW wants each and every hard disk of their computer to have 3 partitions named as C drive, D drive and E drive**

2.1. Explain how to create a partition from unpartitioned space **(10 Marks)**

**3. ABW has given you a task to choose processor for their system from 64-bit and 32-bit.**

3.1. Choose a processor based on the bit size and explain the reasons for your choice. **(5 Marks)**

**4. ABW needs to set a server to store their files that should be accessible over a network with in the premises**

4.1. Explain how server and client works **(10 Marks)**

4.2. Explain different types of networks and mention the type of network the ABW would require for the case mentioned in task 5. **(15 Marks)**

**5. ABW needs a network setup in their premises**

5.1. Explain the usage and purpose of the essential hardware's that would be required set up a network with in the premises. **(10 Marks)**

**6. One of ABW computer has lost network connectivity**

6.1. Explain the network troubleshooting approaches to identify the cause and fix the problem **(10 Marks)**

7. **Two Computer system of ABW has an error message** A Windows 7 system showing the following message.

A problem has been detected and windows has been shut down to prevent damage to your computer.

The problem seems to be caused by the following file: kbdhid.sys

MANUALLY\_INITIATED\_CRASH

If this is the first time you've seen this stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to make sure any new hardware or software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any Windows updates you might need.

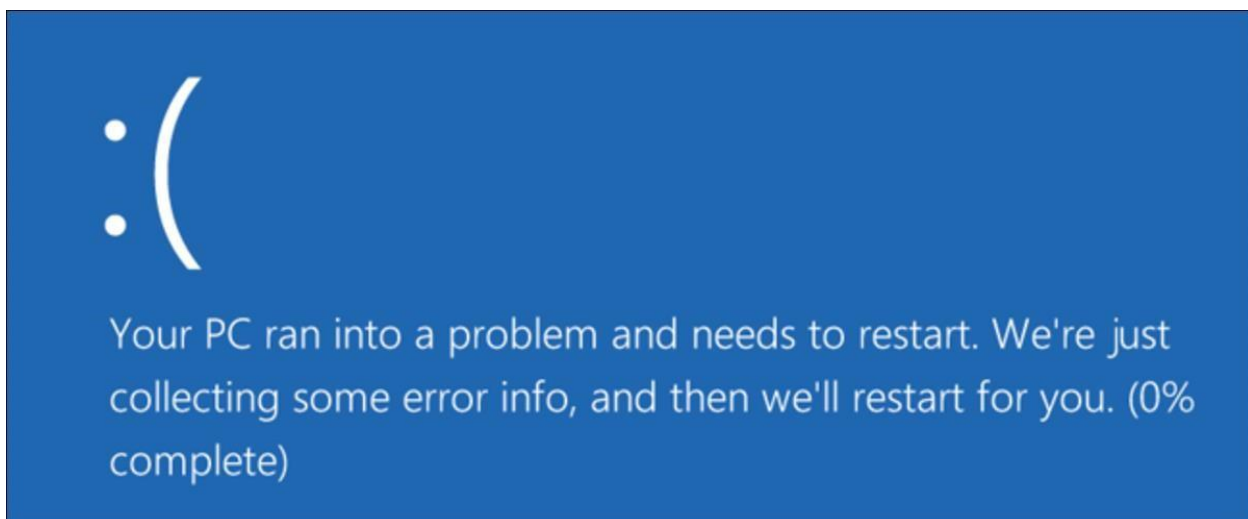
If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use safe mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical Information:

\*\*\* STOP: 0x000000e2 (0x00000000, 0x00000000, 0x00000000, 0x00000000)

\*\*\* kbdhid.sys - Address 0x94efd1aa base at 0x94efb000 DateStamp 0x4a5bc705

A Windows 10 system showing the following message.



- a) Explain the cause this problem and write down how to troubleshoot the above problem. (15 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 2500.
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.**