

Expanded Outcomes**1. Evaluate a wide range of hardware components.**

- Discuss the characteristics, performance, capacity, and variations of the CPU.
- Discuss the function, components and bus connections of a motherboard.
- Discuss the types of memory in a computer, and the upgrade options.
- Discuss configuration options for cables and plugs.
- Discuss configuration options for peripheral devices.

2 Configure hardware components in accordance with given specifications and using standard practice.

- Modify the system setup when making any hardware changes.
- Install and configure a range of hardware components.
- Modify the system configuration to optimise performance.

3 Solve and document, in a methodical manner, problems related to hardware.

- Identify suitable procedures and practices for troubleshooting and solving problems.
- Troubleshoot a series of hardware faults; solve and repair to a fully functional system.
- Document the troubleshooting and solutions for hardware problems

Assessment:

Weighting	Nature of assessment	Learning Outcomes
50%	Practical test	2, 3
50%	Final exam	1, 2, 3

Learning and teaching approaches: Lectures, laboratory work, discussion, and personal research

Learning resources required:

Access to working computer equipment.

Textbook: refer to the current programme booklist.

Learning resources recommended:

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