

Unit Number: 2780

Unit Name: Demonstrate and apply knowledge of a personal computer system
(Version 5)

Expiry Date December 2007

Level 2

Credit 9

- Element 1 Demonstrate knowledge of the hardware components of a personal computer system**
 - 1.1 Demonstrate knowledge of the hardware components of a personal computer system
 - 1.2 Hardware components are identified in terms of device type and function
- Element 2 Demonstrate knowledge of the operation of the system and application software of a personal computer**
 - 2.1 Software and its purpose is identified
 - 2.2 Application software is identified and its purposes stated in terms of outputs.
 - 2.3 The nature of the interactions between system and application software is identified and described
- Element 3 Operate a printer**
 - 3.1 Data from a personal computer are displayed on printed output media
 - 3.2 Simple printer hardware faults and printer related error messages are identified and remedied
- Element 4 Complete basic operation and maintenance procedures for a personal computer system**
 - 4.1 The basic components of a personal computer system are connected to enable it to be operated safely
 - 4.2 A personal computer system is powered up
 - 4.3 Simple hardware faults are identified in terms of faulty components and loose or disconnected plugs
 - 4.4 A personal computer system is cared for and maintained according to specified requirements
- Element 5 Demonstrate knowledge of ergonomic principles for the safe operation of a personal computer system**
 - 5.1 Ergonomic principles in terms of user physical well-being are identified
 - 5.2 Ergonomic principles in terms of environment are identified
 - 5.3 Ergonomic principles in terms of type of machine components are identified

Written Test		Demonstration		
1.1	2.2	3.1	4.1	5.1
1.2	2.3	3.2	4.2	5.2
2.1	3.2		4.3	5.3
			4.4	

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.....Student

Question 2

(1.1) Explain fully in three to four lines your understanding of the terms RAM and ROM.

RAM

ROM

Question 3

(1.1) Identify four hardware components and explain what each one does.

Hardware	What it does

7	2.1	<p>Control of data input and output- makes sure data is routed to the correct destination</p> <p>File management – finds space on backing storage for saving data and finds it again when required</p> <p>Peripheral management – exchange control signals with peripherals, eg a printer signals when more data or paper is required</p> <p>Memory management – allocates memory to programs when they are loaded</p> <p>Scheduling – when more than one job is being processed the OS makes decisions about how much time each process gets</p> <p>Command interpretation – translates typed commands into machine code that the processor can run</p>	<p><i>Functions must be correctly identified and a full description of each given.</i></p> <p><i>Any four from list or others accepted provided they are correct</i></p>
8	2.2	<p>UNIX</p> <p>Windows 95/98</p> <p>Windows NT</p> <p>Windows 2000</p> <p>Novell NetWare</p> <p>Chip based operating system eg washing machines</p>	<p><i>Any three answers accepted provided they are correct</i></p>
9	2.2	<p>a, b, e</p>	<p><i>Answers must all be correct</i></p>
10	2.2	<p>Word Processing - Creating text based documents - letters, documents.</p> <p>Spreadsheet - Number calculation and manipulation tool - budgets</p> <p>Database - Data storage. Sorting information, queries – address lists</p> <p>Desktop Publishing - Formatting pages including graphics - pamphlets</p> <p>Graphics - Specializes in drawing, and expanding on basic drawing tools - CAD</p> <p>Communication software - Communicates between your computer and another, generally outside your environment - E-mail or fax</p>	<p><i>A full description of any four different types selected.</i></p> <p><i>Answers must be clear and concise and clearly describe the function in terms of output.</i></p>