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| Title | **Maintain computer system** | | |
| Level | **2** | **Credits** | **12** |

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| Purpose | This Module aims to provide knowledge and skills on computer system management. It also deals with basic introduction to computer system management, safety aspects, tools and equipments identification and handling techniques. |

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| Classification ISCED | 0611 Computer use |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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|  | **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
|  | A1:  Install operating system | The student will be able to:    P1- Ensure that necessary precautions have been taken before installing any operating system  P2- Install operating system in the PC / computers by following instructional manual. | K1- Become familiar with basic parts of computer.  K2- Identify the difference between hardware and software.  K3- Define operating system and windows. |
|  | A2:  Configure peripheral devices | The student will be able to:    P1-Configure peripheral devices, as per the instructions given in their respective manuals.  P2-Pass functional test for the configured peripheral device, as per instructions. | K1- Define most commonly used peripheral devices.  K2- Explain working and uses of various peripheral devices.  K3- Elaborate the use of different computer communication ports. |

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|  | **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
|  | **A3:**  **Install peripheral devices** | **The student will be able to:**  P1. Ensure that necessary precautions have been taken before installing any peripheral device  P2. Install any peripheral device, as per instructional manual.  P3. Pass functional test for the installed peripheral device. | K1-Elucidate installation of various peripheral devices, as per instructions given in their respective manuals.  K2-Demonstrate functional test for the same peripheral devices. |
|  | **: A4:**  **Install software applications** | **The student will be able to:**  P1. Ensure that necessary precautions have been taken before installing any software application.  P2. Register a software with the help of key.  P3. Carefully install a software application as per given instructional manual. | K1- Understand different software applications.  K2- Explain the procedure to install a software application as per given instructional manual. |
|  | **A5:**  **Update/upgrade software application** | **The student will be able to:**  P1. Check the registry of the application.  P2. Use the instructional manual for updating/upgrading software applications. | K1- Explain the use of instructional manual for updating/upgrading software applications. |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
|  | P3. Update/upgrade software application with the help of CD or Online available software.  P4. Make sure that updated features are in accordance with the specifications / requirements. |  |
| **A6:**  **un-install software application** | **The student will be able to:**  P1-Ensure that necessary precautions have been taken before uninstall any software application  P2-Uninstall any of the software applications.  P3-Ensure that the same software application is removed  P4-Make sure that the action done from control panel.  P5-Check the impact of un-installing on the memory space as well. | K1- Define uninstall of the software.  K2- Explicate the procedure on uninstalling a software application. |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **A7:**  **Perform windows scan** | **The student will be able to:**  P1. Ensure that necessary precautions have been taken before performing window scanning.  P2. Perform Window scan on any infected system.  P3. Detect the viruses available on the hard disk associated with windows software.  P4. Delete / quarantine all the viruses successfully which are detected as a result of scan. | K1- Define how to perform Window scan on any infected system.  K2- Give some example of virus and scanning. |
| **A8:**  **Format External Mass Storage** | **The student will be able to:**  P1. Ensure that necessary precautions have been taken before formatting an external mass storage  P2. Format external mass storage on a PC / computer  **P3.** Ensure that after formatting the external mass storage the device is memory is empty when open. | K1- Classify how to format the external mass storage device. |
| **A9:**  **Trouble shoot basic software errors** | **The student will be able to:**  P1- Select the right troubleshooting software | K1- Define troubleshooting |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
|  | P2- Troubleshoot problems of corrupted software. P3- Remove the errors from the PC / computers. | K2- Describe troubleshooting of various problems of corrupted software. |
| **A10:**  **Troubleshoot basic hardware faults** | **The student will be able to:**  P1-Demonstrate the precautions for trouble shooting errors. P2-Identify solution of hardware errors.  P3-Execute the hardware troubleshooting.  P4- Ensure that all kinds of hardware are functioning error free in the computer in his/her use. | K1- Clarify how to make sure that all kinds of hardware are functioning error free in the computer.  K2- Know about basic hardware faults  K3- Understand and Demonstrate types of hardware trouble shooting |
| **A11:**  **Configure basic internet connectivity** | **The student will be able to:**  P1-Configure basic internet connectivity of a system. P2-Perform connectivity test successfully. | K1- Gain knowledge about key words used to browse on the internet. |