

Computer Maintenance

Module 1, Task 3	Course of Study Crosswalk:	CM 3
Module	Computer Operations	
Task / Topic	Set up a computer system	
Content Standard	The student will set up a computer system.	
Overview/Annotation		
Evaluation	Given a computer case, hardware components, software, manufacturer's manuals, and hand tools, the student will set up a computer system. Completed system will run according to industry standards.	
Resources	Computer Selected hardware Selected software Basic hand tools	
Lesson Length		
Instructional Method		
<input type="checkbox"/> Lecture <input type="checkbox"/> Class Discussion <input type="checkbox"/> Team Work <input type="checkbox"/> Review <input type="checkbox"/> Demonstration <input type="checkbox"/> Multimedia <input type="checkbox"/> Individual Work <input type="checkbox"/> Other		
Assessment Strategy		
<input type="checkbox"/> Homework <input type="checkbox"/> Written Test <input type="checkbox"/> Teacher Observation <input type="checkbox"/> Other <input type="checkbox"/> Class work <input type="checkbox"/> Performance Test <input type="checkbox"/> On-Task Ability <input type="checkbox"/> Other		
Integrated Content Code		
<input checked="" type="checkbox"/> R <input type="checkbox"/> SS <input type="checkbox"/> IR <input type="checkbox"/> PS <input type="checkbox"/> SO <input type="checkbox"/> MS Other <input type="checkbox"/> W <input type="checkbox"/> M <input type="checkbox"/> CL <input type="checkbox"/> CT <input type="checkbox"/> LD <input type="checkbox"/> WA _____ <input checked="" type="checkbox"/> C <input type="checkbox"/> S <input type="checkbox"/> DM <input type="checkbox"/> IM <input type="checkbox"/> ES <input type="checkbox"/> TW _____		

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Module 1, Task 3	Teaching Points (<i>Procedures/Activities/Learning Experiences</i>)
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1. Explain relevant safety precautions.
2. Identify types of hardware to be installed.
 - a. floppy drive
 - b. hard drive
 - c. CD-ROM
 - d. motherboard
 - e. CPU
 - f. heat sink
 - g. cache module
 - h. RAM
 - i. I/O port connections
 - j. video card
 - k. power supply
3. Identify software to be installed.
 - a. Operating system
 - b. Utilities
4. Discuss installation procedures for hardware.
 - a. Configuration of case
 - b. Selection of components
 - c. Compatibility of components
 - d. Static discharge and grounding
 - e. Tools needed
 - f. Manufacturer's specifications
5. Identify typical IRQs, DMAs, and I/O addresses and procedures for altering these settings when installing and configuring devices.
6. Identify the names, purposes, and performance characteristics of standardized/common peripheral ports, associated cabling, and their connectors.
7. Identify proper procedures for installing and configuring common IDE and SCSI devices.
8. Explain how to optimize PC operations in specific situations.
9. Discuss installation procedures for software.
 - a. Installation
 - b. Configuration
10. Demonstrate how to install system hardware.
 - a. Gather components to be installed.
 - b. Remove system case.
 - c. Prepare case for installation of components.
 - d. Install floppy drive.
 - e. Set jumpers on hard drive and CD-ROM.
 - f. Install hard drive and CD-ROM.
 - g. Configure motherboard.
 - h. Install CPU.
 - i. Install heat sink.
 - j. Install cache module.
 - k. Install RAM.
 - l. Install motherboard.
 - m. Install I/O port connections.
 - n. Connect motherboard to case.
 - o. Connect floppy, hard drive, and CD-ROM to motherboard.

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- p. Install video card.
 - q. Check all connections. Ensure cables are installed correctly.
 - r. Connect power to power supply.
 - s. Boot up system.
 - t. Configure BIOS.
 - u. Test system. Troubleshoot any components not working.
 - v. Prepare hard drive to accept operating system.
11. Demonstrate how to install software.
- a. Prepare hard drive to accept operating system.
 - 1. Partition disk
 - 2. Format disk
 - b. Install operating system.
 - c. Configure software.
 - d. Configure system utilities.

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Module 1, Task 3	Provision for Individual Differences
Extension	
Remediation	
Accommodation	
Modification	
Definitions and Suggested Modifications <u>Attention Deficit Disorder</u> <u>Autism</u> <u>Deaf-Blindness</u> <u>Deafness/Hearing Impairment</u> <u>Emotional Disturbance</u> <u>Mild Intellectual Disability</u> <u>Orthopedic Impairment</u> <u>Specific Learning Disability</u> <u>Speech or Language Impairment</u> <u>Tourette's Syndrome</u> <u>Traumatic Brain Injury</u> <u>Visual Impairment</u>	