Kentucky CTE

Computer Science: Computer Hardware and Software Maintenance

Identify and explain motherboard components. CHSM1	**1 Identify and explain motherboard components.** CHSM1
Identify, install, configure, and upgrade personal computer components. CHSM2	**2 Identify, install, configure, and upgrade personal computer components.** CHSM2
Perform the following: device driver installation, scheduled maintenance, and memory and firmware updates CHSM3	**3 Perform the following: device driver installation, scheduled maintenance, and memory and firmware updates** CHSM3
Identify the following: common tools, basic diagnostic procedures, troubleshooting techniques, and preventative maintenance methods CHSM4	**4 Identify the following: common tools, basic diagnostic procedures, troubleshooting techniques, and preventative maintenance methods** CHSM4
Explain and apply the troubleshooting process to diagnose and repair common hardware and software problems. CHSM5	**5 Explain and apply the troubleshooting process to diagnose and repair common hardware and software problems.** CHSM5
De un co	**emonstrate and understanding of conversion between binary, decimal, exadecimal number systems** CHSM6

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binary, decimal, hexadecimal number systems CHSM6	
Compare and contrast client operating systems and their features. CHSM7	**7** **Compare and contrast client operating systems and their features.** CHSM7
Use multiple user interfaces, including command-line, to perform operating system management tasks, to configure, optimize and upgrade the current client operating system and to diagnose network connection issues CHSM8	**8** **Use multiple user interfaces, including command-line, to perform operating system management tasks, to configure, optimize and upgrade the current client operating system and to diagnose network connection issues** CHSM8
Use and manage file systems, operating system utilities, backup programs, and optimization tools. CHSM9	**9** **Use and manage file systems, operating system utilities, backup programs, and optimization tools.** CHSM9
Describe the process to install, configure, secure and troubleshoot a basic small or home office network. CHSM10	**10** **Describe the process to install, configure, secure and troubleshoot a basic small or home office network.** CHSM10
Identify the fundamental principles of networking and security. CHSM11	**11** **Identify the fundamental principles of networking and security.** CHSM11
Describe and apply appropriate operational procedures including safety, environmental procedures, good communication skills, and professional behavior. CHSM12	**12** **Describe and apply appropriate operational procedures including safety, environmental procedures, good communication skills, and professional behavior.** CHSM12