Kentucky CTE

Computer Science: Computer Hardware and Software Maintenance 110101 (2026–2027)

Identify and explain motherboard components. 1	**1 Identify and explain motherboard components.** 1
Identify, install, configure, and upgrade personal computer components. 2	**2 Identify, install, configure, and upgrade personal computer components.** 2
Perform device driver installation, scheduled maintenance, and memory and firmware updates. 3	**3 Perform device driver installation, scheduled maintenance, and memory and firmware updates.** 3
Identify common tools, basic diagnostic procedures, troubleshooting techniques, and preventative maintenance methods. 4	**4 Identify common tools, basic diagnostic procedures, troubleshooting techniques, and preventative maintenance methods.** 4
Explain and apply the troubleshooting process to diagnose and repair common hardware and software problems. 5	**5 Explain and apply the troubleshooting process to diagnose and repair common hardware and software problems.** 5
De un conversion between	**)emonstrate an understanding of conversion between binary, decimal, and iexadecimal number systems.** 6

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binary, decimal, and hexadecimal number systems. 6	
Compare and contrast client operating systems and their features. 7	7 Compare and contrast client operating systems and their features. 7
Use multiple user interfaces, including command-line, to perform operating system management tasks, configure, optimize and upgrade the current client operating system and diagnose network connection issues. 8	8 Use multiple user interfaces, including command-line, to perform operating system management tasks, configure, optimize and upgrade the current client operating system and diagnose network connection issues. 8
Use and manage file systems, operating system utilities, backup programs, and optimization tools. 9	9 Use and manage file systems, operating system utilities, backup programs, and optimization tools. 9
Describe the process to install, configure, secure and troubleshoot a basic small or home office network. 10	10 Describe the process to install, configure, secure and troubleshoot a basic small or home office network. 10
Identify the fundamental principles of networking and security. 11	11 Identify the fundamental principles of networking and security. 11
Describe and apply appropriate operational procedures, including safety, environmental procedures, good communication skills, and professional behavior. 12	12 Describe and apply appropriate operational procedures, including safety, environmental procedures, good communication skills, and professional behavior. 12