

Computer Science: Computer Hardware and Software Maintenance

Identify and explain motherboard components. [CHSM1](#)

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Identify, install, configure, and upgrade personal computer components. [CHSM2](#)

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Perform the following: device driver installation, scheduled maintenance, and memory and firmware updates [CHSM3](#)

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Identify the following: common tools, basic diagnostic procedures, troubleshooting techniques, and preventative maintenance methods [CHSM4](#)

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Explain and apply the troubleshooting process to diagnose and repair common hardware and software problems. [CHSM5](#)

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Demonstrate and understanding of conversion between

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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](#)

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](#)

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](#)

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