North Carolina CTE

Computer Engineering Technology II (2016): Grades 9, 10, 11, 12

Adopted 2016

Apply procedures used in Windows operating systems. 1.00	**01.** Compare and contrast various features and requirements of Microsoft Operating Systems (Windows Vista, Windows 7, Windows 8, Windows 8.1). 1.01
	02. Install Windows PC operating systems using appropriate methods. 1.02
	03. Apply appropriate Microsoft command line tools. 1.03
	04. Use appropriate Microsoft operating system features and tools. 1.04
	05. Use Windows Control Panel utilities 1.05
	06. Install and configure Windows networking on a client/desktop. 1.06
	07. Perform common preventive maintenance procedures using the appropriate Windows OS tools. 1.07
Apply procedures used in non-window based operating systems. 2.00	**01.** Identify common features and functionality of the Mac OS and Linux operating systems. 2.01
	02. Setup and use client-side virtualization. 2.02
	03. Identify basic cloud concepts. 2.03
	04. Summarize the properties and purpose of services provided by networked hosts. 2.04
	05. Identify basic features of mobile operating systems. 2.05
	06. Install and configure basic mobile device network connectivity and email. 2.06
	07. Summarize methods and data related to mobile device synchronization. 2.07
Un se	Identify common security threats and vulnerabilities. 3.01
	Compare and contrast common prevention methods. 3.02

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	03. Compare and contrast differences of basic Windows OS security settings. 3.03
	04. Deploy and enforce security best practices to secure a workstation. 3.04
	05. Compare and contrast various methods for securing mobile devices. 3.05
	06. Use appropriate data destruction and disposal methods. 3.06
	07. Secure SOHO wireless and wired networks. 3.07
Apply procedures to troubleshoot software issues. 4.00	01. Troubleshoot PC operating system problems with appropriate tools. 4.01
	02. Troubleshoot common PC security issues with appropriate tools and best practices. 4.02
	03. Troubleshoot common mobile OS and application issues with appropriate tools. 4.03
	04. Troubleshoot common mobile OS and application security issues with appropriate tools. 4.04
	05. Given a scenario, troubleshoot wired and wireless networks with appropriate tools. 4.05
	06. Given a scenario, troubleshoot operating system problems with appropriate tools. 4.06
	07. Given a scenario, troubleshoot common security issues with appropriate tools and best practices. 4.07
	08. Given a scenario, troubleshoot, and repair common laptop issues while adhering to the appropriate procedures. 4.08
	09. Given a scenario, troubleshoot printers with appropriate tools 4.09
Apply operational procedures used in the computer industry. 5.00	01. Use appropriate safety procedures. 5.01
	02. Apply the appropriate controls used with potential environmental impact 5.02
	03. Summarize the process of addressing prohibited content/activity, and explain privacy, licensing, and policy concepts. 5.03
	04. Demonstrate proper communication techniques and professionalism. 5.04
	05. Explain the troubleshooting theory. 5.05