Virginia CTE

Cybersecurity Systems Technology (8628)

Demonstrating Ethical Behavior with Computer Systems Technology CST.1	1 **Identify security issues related to computer hardware, software, and data.** CST.1.1
	2 **Identify concepts of cybersecurity, honesty, courtesy, and confidentiality related to information and email systems and social networking (e.g., spam, viruses, and etiquette).** CST.1.2
	3 **Investigate Internet privacy issues and computer crimes, including identity theft.** CST.1.3
	4 **Comply with copyright and patent laws and intellectual property.** CST.1.4
	5 **Explain privacy, licensing, and policy concepts.** CST.1.5
	6 **Comply with policies regarding acceptable use of technology.** CST.1.6
Exploring Hardware Components That Are Relevant to Cybersecurity CST.2	1 **Configure settings using Basic Input-Output System/Unified Extensible Firmware Interface (BIOS/UEFI) tools on a personal computer (PC).** CST.2.1
	2 **Describe the purpose and properties of motherboard components that are relevant to cybersecurity.** CST.2.2
	3 **Describe the purpose and property of RAM.** CST.2.3
	4 **Install PC expansion cards.** CST.2.4
	5 **Identify features of CPUs as applicable to cloud and cybersecurity.** CST.2.5
	6 **Enumerate various PC connection interfaces.** CST.2.6
	7 **Identify the components required for a PC.** CST.2.7
	8 **Differentiate among storage devices.** CST.2.8
	9 **Identify common peripheral devices and the risk associated with them.** CST.2.9
	10 **Manage network printers.** CST.2.10

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Exploring Networking CST.3	1 **Compare the characteristics of connectors and cabling.** CST.3.1
	2 **Explain the properties and characteristics of Transmission Control Protocol/Internet Protocol (TCP/IP).** CST.3.2
	3 **Explain common ports, protocols, and their purpose.** CST.3.3
	4 **Compare various Wireless Fidelity (WiFi) networking standards and encryption types.** CST.3.4
	5 **Install wireless/wired router.** CST.3.5
	6 **Compare Internet connection types, network types, and their features.** CST.3.6
	7 **Compare network architecture devices, their functions, and features.** CST.3.7
	8 **Install cable types and connectors.** CST.3.8
Exploring Mobile Devices CST.4	1 **Explain the characteristics and security risks of types of mobile devices.** CST.4.1
	2 **Explain the characteristics of mobile devices.** CST.4.2
	3 **Describe security concerns with Internet of Things (IoT) devices.** CST.4.3
	4 **Troubleshoot wired and wireless networks.** CST.4.4
Troubleshooting Hardware and Networking CST.5	1 **Identify concepts related to copyright, public domain, copy protection, intellectual property, and licensing agreements.** CST.5.1
	2 **Describe the characteristics and purposes of various PC connection interfaces.** CST.5.2
	3 **Install a power supply.** CST.5.3
	4 **Compare types of displays.** CST.5.4
	5 **Identify common PC connector types and associated cables.** CST.5.5
	6 **Identify the types of network cables and connectors.** CST.5.6
	7 **Use networking tools.** CST.5.7
	8 **Install laptop hardware and components.** CST.5.8
	9 **Describe the function of components within the display of a laptop.** CST.5.9
	10 **Demonstrate laptop features.** CST.5.10
	Troubleshoot hard drives and RAID arrays. CST.5.11

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12 **Troubleshoot common video, projector, and display issues.** CST.5.12

13 **Analyze appropriate safety procedures.** CST.5.13

14 **Explain the troubleshooting theory.** CST.5.14

15 **Analyze controls and their effect on the environment.** CST.5.15