

# 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**

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- 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**

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- 3 Investigate Internet privacy issues and computer crimes, including identity theft.** **CST.1.3**

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- 4 Comply with copyright and patent laws and intellectual property.** **CST.1.4**

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- 5 Explain privacy, licensing, and policy concepts.** **CST.1.5**

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- 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**

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- 2 Describe the purpose and properties of motherboard components that are relevant to cybersecurity.** **CST.2.2**

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- 3 Describe the purpose and property of RAM.** **CST.2.3**

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- 4 Install PC expansion cards.** **CST.2.4**

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- 5 Identify features of CPUs as applicable to cloud and cybersecurity.** **CST.2.5**

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- 6 Enumerate various PC connection interfaces.** **CST.2.6**

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- 7 Identify the components required for a PC.** **CST.2.7**

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- 8 Differentiate among storage devices.** **CST.2.8**

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- 9 Identify common peripheral devices and the risk associated with them.** **CST.2.9**

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- 10 Manage network printers.** **CST.2.10**

## 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
- 11 Troubleshoot hard drives and RAID arrays. CST.5.11

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

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

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

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