

## CONTENT STANDARD 1.0: ~~PC HARDWARE~~MOBILE DEVICES

### Performance Standard 1.1: ~~Students Will Be Able To Identify, Install, and Configure PC Hardware~~General Overview

- 1.1.1 ~~Identify and understand motherboards and related components.~~ Explain and demonstrate safety procedures.
- 1.1.2 ~~Identify and understand RAM types and features.~~ Understand and explain proper disposal of mobile devices.
- ~~1.1.3 Identify and understand expansion card uses and differences.~~
- 1.1.4 ~~3~~ Understand differences Compare and use contrast characteristics of storage various types of other mobile devices and media types features.
- 1.1.5 ~~4~~ Identify Understand and understand CPU types and explain how to use appropriate mobile device features.
- 1.1.6 ~~5~~ Learn about Power Supply Units. Configure basic mobile device network connectivity and application support.
- 1.1.7 ~~6~~ Demonstrate custom configurations per customer needs.

### Performance Standard 1.2: Mobile Device Security

- 1.2.1 Configure secure wireless connection.
- 1.2.2 Understand and explain the application and usage of common security protection methods.
- 1.2.3 Understand and explain the differences in common security threats.
- 1.2.4 Demonstrate the implementation of best practices and methods for securing mobile devices.
- 1.2.5 Understand and explain appropriate data destruction and disposal methods.
- 1.2.6 Understand and demonstrate how to connect a mobile device to a secure wired and wireless network.

### Performance Standard 1.3: Mobile Device Hardware

- 1.3.1 Compare and contrast components within mobile devices.
- 1.3.2 Understand and demonstrate how to configure accessories and ports.
- 1.3.3 Troubleshoot common mobile device hardware issues.

### Performance Standard 1.4: Mobile Device Software

- 1.4.1 Understand the basic network connectivity and configuring email.
- 1.4.2 Understand the configuration of mobile device synchronization.
- 1.4.3 Compare and contrast mobile operating systems.
- 1.4.4 Troubleshoot mobile operating system (OS) and application issues.

## CONTENT STANDARD 2.0: NETWORKING ~~TECHNOLOGIES~~

### Performance Standard 2.1: ~~Students Will Be Able To Identify and Explain~~General Networking ~~Technologies~~

- 2.1.1 Identify network cables and connectors and their characteristics.
- ~~2.1.2 Explain TCP/IP characteristics and properties.~~
- 2.1.3 ~~2~~ Identify and understand the use of common TCP / UDP ports, protocols, and their characteristics.

- 2.1.43 ~~Understand~~ Given a scenario, install and configure a basic wired/wireless ~~networking standards and encryption types~~ network.
- 2.1.54 ~~Demonstrate installation, configuration, Compare and deployment of a Home office~~ contrast network protocols.
- 2.1.65 ~~Understand Compare and explain different Internet connection types~~ contrast wireless security protocols and ~~features~~ authentication methods.
- 2.1.76 Understand ~~different~~ and explain the importance of physical security of network devices, ~~their functions, and features.~~
- 2.1.7 ~~Compare and contrast common networking hardware devices. Identify and understand the use of connector types and associated cables.~~ Summarize properties and services provided by networked hosts.
- 2.1.8 ~~Demonstrate the Use~~ appropriate use of networking hardware and software network tools.
- 2.1.9 ~~tools.~~
- 2.1.10 Compare and contrast internet connection types, network types and their features.
- 2.1.11 Explain common network configuration concepts.
- 2.1.12 Understand and explain remote access technology.

### CONTENT STANDARD 3.0: ~~LAPTOPS~~ HARDWARE

#### Performance Standard 3.1: ~~Students Will Be Able To Identify, Install, and Configure Laptop and Related~~ General Hardware

- 3.1.1 Explain basic cable types, features, and their purposes, common connector types.
- 3.1.12 ~~Demonstrate~~ Understand and explain how to select and configure appropriate components for a custom ~~configurations per~~ PC configuration to meet customer specifications or needs.
- 3.1.23 ~~Install~~ Identify and ~~configure laptop hardware~~ understand RAM types and components features.
- 3.1.4 Identify and understand expansion card uses and differences.
- 3.1.5 Understand and explain differences and use of storage devices and media types.
- 3.1.6 Identify and understand CPU types and features.
- 3.1.7 Summarize power supply types and features.
- 3.1.8 Understand and explain various peripheral types.

#### Performance Standard 3.2: Printers

- 3.2.1 Install and maintain various print technologies.
- 3.2.2 Understand and explain how to configure multifunction devices.

### CONTENT STANDARD 4.0: VIRTUALIZATION AND CLOUD COMPUTING

#### Performance Standard 4.1: General Concepts

- Compare and contrast ~~the components within the display of a laptop~~ cloud computing concepts.
- 4.1.2 Understand and explain how to set up and configure client-side virtualization.
- 4.1.43 Compare and contrast ~~laptop features~~ different cloud computing platforms.

### CONTENT STANDARD 4.5.0: ~~PRINTERS~~ TROUBLESHOOTING

#### Performance Standard 4.5.1: ~~Students Will Be Able To Explain The Differences~~

## ~~Between The Various Printer Types and Understand The Associated Imaging Process~~ Hardware

- 5.1.1 Explain and demonstrate safety procedures.
- 5.1.2 Explain and demonstrate best practice methodology to resolve problems.
- ~~45.1.13~~ ~~Demonstrate the installation and configuration of various printers and associated hardware.~~ Troubleshoot common hardware problems with the appropriate tools.
- 5.1.4 Troubleshoot storage devices and RAID with appropriate tools.
- 5.1.5 Troubleshoot video and displays.
- 5.1.6 Troubleshoot common mobile device issues with appropriate tools.
- ~~45.1.27~~ ~~Given a scenario, install and configure~~ Troubleshoot printers with appropriate tools.
- 5.1.8 Troubleshoot common security issues with appropriate tools and best practices.

### Performance Standard 5.2: Software

- 5.2.1 Troubleshoot operating systems with appropriate tools.
- 5.2.2 Troubleshoot Microsoft Windows operating system problems.
- 5.2.3 Troubleshoot and resolve device security issues.
- ~~5.2.4.1.3~~ ~~Demonstrate~~ Understand and explain ~~perform printer maintenance~~ best practice procedures for malware and virus removal.

### Performance Standard 5.3: Networks

- 5.3.1 Troubleshoot wired and wireless networks with appropriate tools.

## CONTENT STANDARD 6.0: OPERATING SYSTEMS (OS)

### Performance Standard 6.1: Windows Operating System

- 6.1.1 Understand and explain the features and requirements of Windows operating systems.

## ~~CONTENT STANDARD 5.0: WORKPLACE READINESS~~

### ~~Performance Standard 5.1: Students Will Learn and Demonstrate Workplace Readiness Skills~~

- ~~5.1.1 Understand and demonstrate appropriate safety procedures.~~
- ~~5.1.2 Understand and explain the impact of environmental controls.~~
- ~~5.1.3 Understand and demonstrate proper communication and professionalism.~~
- ~~5.1.4 Understand the fundamentals of dealing with prohibited content/activity.~~

## ~~CONTENT STANDARD 6.0: OPERATING SYSTEMS~~

### ~~Performance Standard 6.1: Students Will Develop an Understanding of Microsoft Windows Operating Systems~~

- ~~6.1.1 Understand the features and requirements of various Microsoft operating systems.~~
- 6.1.2 Demonstrate how to install, upgrade, and configure the operating system.
- 6.1.3 Understand and demonstrate the use of command line tools.
- 6.1.4 Understand and demonstrate Control Panel utilities and other operating system tools.
- 6.1.5 Understand Windows networking and configuration.
- 6.1.6 Understand and explain the differences in basic [OS operating system](#) security settings.
- 6.1.7 ~~Understand~~ [Identify](#) the basics of ~~client-side virtualization.~~ [scripting.](#)

## ~~CONTENT STANDARD 7.0: SECURITY~~

### ~~Performance Standard 7.1: Students Will Understand and Demonstrate How To Secure A Network and A Workstation~~ [6.2: Other Operating Systems](#)

- ~~7.1.1 Understand the application and usage of common prevention methods.~~
- ~~7.1.2 Understand the differences in common security threats.~~
- ~~7.1.3 Demonstrate the implementation of best practices to secure a workstation.~~
- ~~7.1.4 Understand appropriate data destruction and disposal methods.~~
- ~~7.2.1.5 Understand and demonstrate how to secure a Home office wired and wireless network.~~ [Explain and use basic features and tools of other operating systems \(Linux, Mac operating system, etc.\).](#)

## ~~CONTENT STANDARD 8.0: MOBILE DEVICES~~ [PROFESSIONALISM](#)

### ~~Performance Standard 8.1: Students Will Develop an Understanding of Mobile Devices~~ [Workplace Readiness](#)

- ~~8.1.1 Understand the basic features of mobile operating systems~~ [and demonstrate appropriate safety procedures.](#)
- ~~8.1.2 Understand and explain the basic network connectivity and configuring email~~ [impact of environmental controls.](#)
- ~~8.1.3 Demonstrate the implementation of best practices to secure a workstation.~~
- ~~8.1.4 Understand how to secure mobile devices.~~
- ~~8.1.5.3 Understand and recognize differences in tablets~~ [demonstrate proper communication and laptops professionalism.](#)
- ~~8.1.6.4 Understand the configuration fundamentals of mobile device synchronization~~ [dealing with prohibited content/activity.](#)

## ~~CONTENT STANDARD 9.0: TROUBLESHOOTING TECHNIQUES~~

## Performance Standard ~~9.1: Students Will Demonstrate Proper OS and Workstation Troubleshooting Techniques~~ 7.2: Operational Procedures

- ~~9.1.1.1~~ 9.1.1.1 Troubleshoot common problems with PC Hardware with the appropriate tools. ~~Compare and contrast best practices associated with types of documentation.~~
- ~~9.1.1.2~~ 9.1.1.2 Troubleshoot hard drives and RAID with appropriate tools. ~~Implement basic change management best practices.~~
- ~~9.1.1.3~~ 9.1.1.3 Implement basic disaster prevention and recovery methods. ~~Troubleshoot video and displays.~~
- ~~9.1.1.4~~ 9.1.1.4 Explain the processes for addressing prohibited content/activity, and privacy, licensing, and policy concepts. ~~Troubleshoot wired and wireless networks with appropriate tools.~~
- ~~9.1.1.5~~ 9.1.1.5 ~~Troubleshoot operating~~ Understand and explain the importance of keeping systems current with ~~appropriate tools~~ updates and patches.
- ~~9.1.6~~ 9.1.6 Troubleshoot common laptop issues with appropriate tools.
- ~~9.1.7~~ 9.1.7 Troubleshoot printers with appropriate tools.
- ~~9.1.8~~ 9.1.8 ~~Troubleshoot common security issues with appropriate tools and best practices.~~

## CONTENT STANDARD ~~108.0: INDUSTRY TRENDS~~

### Performance Standard ~~108.1: Students Will~~ Understand Current and Emerging Computer Based Technologies

- ~~108.1.1~~ 108.1.1 Demonstrate an understanding of the constant change of emerging technologies.