

Alabama CTE Equipment List

This list is based on a classroom size of 25 students and meets minimum standards. All costs are estimated. No specific equipment vendor or brand names are endorsed, but school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for a Cybersecurity and Infrastructure program and are not meant to dictate the number of students that can safely fit in a classroom and/or laboratory.

Cluster: Information Technology
Program: Cybersecurity and Infrastructure

CLASSROOM EQUIPMENT

TOTAL: \$50,650

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
25	Desktops Description: High-performance desktop with Intel Core i7 processor, 16GB RAM, 512GB SSD, and advanced security features.	\$1,200	\$30,000
25	Monitors Description: Full HD monitor with 1920x1080 resolution, IPS technology, and adjustable stand.	\$150	\$3,750
2	Servers Description: High-performance server with dual processors, extensive storage options, and robust security features. Essential for network and server management training. Usually provided by school district.		
3	Networking Equipment Switch Description: Managed network switch with 24 Gigabit Ethernet ports, advanced security, and QoS features. Essential for building a classroom network. Usually provided by school district.		
2	Firewall Description: Next-generation firewall with comprehensive security services, including VPN, intrusion prevention, and advanced threat protection. Usually provided by school district.		
2	Storage Devices NAS Description: Network-attached storage device with multiple bays, supporting RAID configurations, and advanced data protection features. Suitable for data backup and file sharing.	\$700	\$1,400
10	External Hard Drive (1TB) Description: Portable external hard drive with 1TB capacity, USB 3.0 connectivity, and backup software. Useful for storing and transferring large amounts of data.	\$60	\$600
2	Routers Description: High-speed router with 10 Gigabit LAN ports, 802.11ad Wi-Fi, and advanced security features. Usually provided by school district.		
50	Cat6 Ethernet Cables (100ft) Description: High-speed Ethernet cables for reliable network connections and data transfer.	\$20	\$1,000
25	Webcam	\$20	\$500
1	Network Color Laser Printer	\$400	\$400

	Description: High-performance monochrome laser printer with duplex printing, fast print speeds, and robust security features. May be an All-In-One device.		
25	Computer Workstation Desks Description: Computer stations, and/or adjustable computer tables with cable management capabilities and office compatible chairs. NOTE: Computer stations/tables should be in accessible proximity to networking switches and multiple outlets. One for each student based on the largest class enrollment.	\$500	\$12,500
25	Penetration Testing Tools: (Penetration testing, also known as pen testing, ethical hacking, or white-hat hacking, involves simulating cyberattacks to identify vulnerabilities within a system or device.) Kali Linux Description: Open-source penetration testing and security auditing platform with a wide range of tools.	\$0	\$0
1	Teacher Workstation/Desk w/chair	\$500	\$500

PROGRAM EQUIPMENT (Items over \$250)

TOTAL: \$2,000

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Metasploit Pro Description: Advanced penetration testing software with automation and collaboration features. Cost is per license.	\$2,000	\$2,000

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$4,500

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
	Operating Systems, Security Software, Networking Software, Backup Software (Usually provided by school district)		
25	Raspberry Pi Kits Description: Affordable, small single-board computers for hands-on learning and experimentation in networking and security.	\$100	\$2,500
25	Arduino Starter Kits Description: Kits containing an Arduino microcontroller and various components for learning and prototyping.	\$80	\$2,000

OPTIONAL EQUIPMENT/SUPPLIES

ITEM DESCRIPTION
Presentation Equipment Description: Interactive whiteboard with software, accessories and collaboration features.
Monitors Description: Full HD monitor with 1920x1080 resolution, IPS technology, and adjustable stand. For dual-monitor setups.
Laptops (for instructors and mobility) Description: Business-class laptop with Intel Core i5 processor, 8GB RAM, and 256GB SSD.
CISSP Study Guides

Description: Comprehensive study guides for Certified Information Systems Security Professional (CISSP) certification.
Online Course Subscriptions (e.g., Coursera, Udemy, CompTIA) Description: Access to a wide range of online courses and training materials in cybersecurity and IT.

Category Totals:

Classroom Equipment	\$50,650
Program Equipment	\$2,000
Instructional Supplies	\$4,500
Estimated Program Total	\$57,150