

## 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 an Information Technology and Support Services 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: Information Technology and Support Services**

**CLASSROOM EQUIPMENT**

TOTAL: \$50,650

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
25	<b>Desktops</b> <b>Description:</b> High-performance desktop with Intel Core i7 processor, 16GB RAM, 512GB SSD, and advanced security features.	\$1,200	\$30,000
25	<b>Monitors</b> <b>Description:</b> Full HD monitor with 1920x1080 resolution, IPS technology, and adjustable stand. Suitable for dual-monitor setups.	\$150	\$3,750
2	<b>Servers</b> <b>Description:</b> 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	<b>Networking Equipment Switch</b> <b>Description:</b> 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	<b>Firewall</b> <b>Description:</b> Next-generation firewall with comprehensive security services, including VPN, intrusion prevention, and advanced threat protection. Usually provided by school district.		
2	<b>Storage Devices</b> <b>NAS Description:</b> 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	<b>External Hard Drive (1TB)</b> <b>Description:</b> 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	<b>Routers</b> <b>Description:</b> High-speed router with 10 Gigabit LAN ports, 802.11ad Wi-Fi, and advanced security features. Usually provided by school district.		
50	<b>Cat6 Ethernet Cables (100ft)</b> <b>Description:</b> High-speed Ethernet cables for reliable network connections and data transfer.	\$20	\$1,000
25	<b>Webcam</b>	\$20	\$500
1	<b>Network Color Laser Printer</b>	\$400	\$400

	<b>Description:</b> High-performance monochrome laser printer with duplex printing, fast print speeds, and robust security features. May be an All-In-One device.		
25	<b>Computer Workstation Desks</b> <b>Description:</b> Computer stations, and/or adjustable computer tables with cable management capabilities and office compatible chairs. <b>NOTE:</b> 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
1	<b>Teacher Workstation/Desk w/chair</b>	\$500	\$500

**PROGRAM EQUIPMENT** (Items over \$250)

TOTAL: \$6,150

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	<b>IT Management Tools</b> <b>SolarWinds Network Performance Monitor</b> <b>Description:</b> Network performance monitoring software to detect, diagnose, and resolve network issues. Educational cost is per year.	\$2,955	\$2,955
1	<b>ManageEngine ServiceDesk Plus</b> <b>Description:</b> IT help desk software with integrated asset and project management. Educational cost is per year.	\$1,195	\$1,195
2	<b>VMware vSphere</b> <b>Description:</b> Industry-leading virtualization platform for creating and managing virtual machines and resources.	\$1,000	\$2,000

**INSTRUCTIONAL SUPPLIES** (Items under \$250)

TOTAL: \$4,500

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
	<b>Operating Systems, Security Software, Networking Software, Backup Software</b> (Usually provided by school district)		
25	<b>Raspberry Pi Kits</b> <b>Description:</b> Affordable, small single-board computers for hands-on learning and experimentation in networking and security.	\$100	\$2,500
25	<b>Arduino Starter Kits</b> <b>Description:</b> Kits containing an Arduino microcontroller and various components for learning and prototyping.	\$80	\$2,000
25	<b>Database Management</b> <b>MySQL Description:</b> Open-source relational database management system.	\$0	\$0

**OPTIONAL EQUIPMENT/SUPPLIES**

ITEM DESCRIPTION
<b>Presentation Equipment</b> <b>Description:</b> Interactive whiteboard with software, accessories and collaboration features.
<b>Monitors</b> <b>Description:</b> Full HD monitor with 1920x1080 resolution, IPS technology, and adjustable stand. For dual-monitor setups.

<b>Laptops (for instructors and mobility)</b> <b>Description:</b> Business-class laptop with Intel Core i5 processor, 8GB RAM, and 256GB SSD.
<b>Online Course Subscriptions (e.g., Coursera, Udemy)</b> <b>Description:</b> Access to a wide range of online courses and training materials in cybersecurity and IT.
<b>CompTIA A+ Certification Study Guides</b> <b>Description:</b> Comprehensive study guides for CompTIA A+ certification.

**Category Totals:**

Classroom Equipment	\$50,650
Program Equipment	\$6,150
Instructional Supplies	\$4,500
<b>Estimated Program Total</b>	<b>\$61,300</b>