

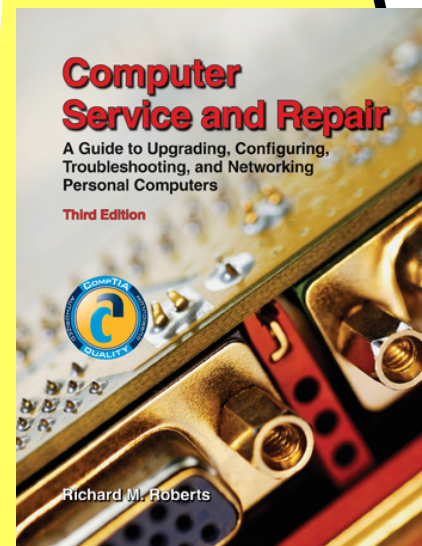


Goodheart-Willcox Publisher

**Correlations to the Alabama Career Cluster
Curriculum**

**Career and Technical Education - Comprehensive
Course: Information Technology Fundamentals
Grades 9-12**

Computer Service and Repair © 2008
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CONTENT STANDARD	CORRELATING PAGE NUMBERS
Computer Basics	
Students will:	
Distinguish between input and output devices, including monitor, keyboard, mouse, and scanner.	297–334; 341–392; 385–517
Utilize mathematics skills to convert between two number systems, including decimal, binary, and hexadecimal.	22–24; 941–944
Hardware Installation	
Perform computer maintenance and upgrading of computer components and portable devices.	198–199; 203–208; 239; 249–251; 255; 360–361; 365–366; 384–385; 393–400; 429–430; 446–447; 454–456; 475–476; 481–484; 552–556
Practice basic procedures of installing, configuring, optimizing, and upgrading printers and scanners.	496–498; 518–522; 599–606
Software Installation	

Identify fundamentals of using operating systems.	57–95; 549–552
Perform basic configuration and optimization by updating and upgrading operating systems.	101–115; 534–536; 675–678
Troubleshooting and Maintenance	
Utilize troubleshooting techniques for personal computer components and portable devices.	153–154; 219–224; 237–239; 285–287; 303–305; 308–310; 326–328; 335–340; 359–360; 556–559; 595
Perform preventive maintenance on personal computer components and portable devices, operating systems, and computer security systems.	492–493; 559–560; 620–625
Identify tools, diagnostic procedures, and troubleshooting techniques for operating systems, printers and scanners, and security.	502–510; 635–644; 647–674; 683–687
Demonstrate the construction of a computer system, including the installation of hardware and software.	101–115; 158; 202; 248; 291
Demonstrate configuring, upgrading, and optimizing security.	544–549; 620–626; 629; 824–826
Career Opportunities	
Determine career and entrepreneurial opportunities, responsibilities, and educational and credentialing requirements related to the information technology industry.	913–926

Use communication skills effectively when communicating with customers and colleagues.	860–867
Exhibit job-related professional behavior, including confidentiality, respect for the customer and customer’s property, and adherence to privacy laws.	868–873
Interpret research data to predict anticipated changes in computer systems.	202; 291; 598
Network Basics	
Identify fundamental principles of networks.	689–723; 736–737; 745–766; 777–788; 792–799; 809–826
Demonstrate configuring, optimizing, and upgrading of networks.	565–572; 591–592; 728–734; 737–744; 770–775; 826–841; 848–852
Identify tools, diagnostic procedures, and troubleshooting techniques for networks.	788–792; 799–800; 805–807; 841–843