



A+ Essentials

Overview

CompTIA A+ certification validates the latest skills needed by computer support professionals, and confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.

<p>Lesson 1: Personal Computer Components The following concepts are covered in this lesson: Hardware components Storage Devices Computer Connections</p> <p>Lesson 2: Operating System Fundamentals The following concepts are covered in this lesson: Directory and file management System Management Boot Processes System Monitoring and Management System Troubleshooting</p> <p>Lesson 3: PC Technician Professional Best Practices The following concepts are covered in this lesson: Electricity Understanding Static Electricity Power supplies Safety with computers Tools and software for safety</p> <p>Lesson 4: Installing and Configuring Peripheral Components The following concepts are covered in this lesson: Display Devices Install and configure I/O Devices Adapter Cards Multimedia Devices</p> <p>Lesson 5: Installing and Configuring System Components The following concepts are covered in this lesson: Installing Storage Devices Power supplies Memory System BIOS and CMOS Understanding the POST process</p> <p>Lesson 6: Troubleshooting System Components The following concepts are covered in this lesson: Troubleshooting Storage Devices Trouble shooting Power Supplies Troubleshooting Memory Troubleshooting CPUs and System Boards</p> <p>Lesson 7: Installing and Configuring Operating Systems The following concepts are covered in this lesson: Install Microsoft Windows Upgrade Microsoft Windows Optimizing Windows</p>	<p>Lesson 8: Maintaining and Troubleshooting Microsoft Windows The following concepts are covered in this lesson: System Utilities Troubleshooting Windows System Recovery for Windows</p> <p>Lesson 9: Networking Technologies The following concepts are covered in this lesson: Network communications Internet connections Network Installation Network Addressing and Gateways Network Troubleshooting Wired and Wireless Network connections Understanding Network Architectures</p> <p>Lesson 10: Installing and Managing Network Connections The following concepts are covered in this lesson: Creating Network Connections Web Browsers Troubleshooting Networks</p> <p>Lesson 11: Supporting Laptops and Portable Computing Devices The following concepts are covered in this lesson: Notebook Computer Components Handheld Devices Troubleshooting Portable Computing Devices</p> <p>Lesson 12: Supporting Printers and Scanners The following concepts are covered in this lesson: Printer and Scanner technologies Printer and Scanner Components Installing Printers and Scanners Printer and Scanner processes Troubleshooting Printers and Scanners</p> <p>Lesson 13: Personal Computer Security Concepts The following concepts are covered in this lesson: Security Basics OS and Hardware Security Physical Security Wireless Security</p>
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A+ IT Technician

Overview

In this course, students will learn how to support PC hardware in a business setting, including installation, troubleshooting, and component replacement. The target student for this course is responsible for maintaining PCs in their workplace

<p>Lesson 1: IT Technician Professional Best Practices</p> <ul style="list-style-type: none"> Tools of the Trade Safety and Environmental Issues Professionalism and Communication <p>Lesson 2: Installing and Configuring Personal Computer Components</p> <ul style="list-style-type: none"> Install and Configure System Boards Install and Configure Memory Install and Configure Storage Devices Install and Configure CPUs Install and Configure Power Supplies Install and Configure Cooling Systems Install and Configure Adapter Cards Install and Configure Display Devices Install and Configure Input Devices Install and Configure Multimedia Devices <p>Lesson 3: Maintaining and Troubleshooting Personal Computer Components</p> <ul style="list-style-type: none"> Maintain Personal Computer Components Troubleshoot Processors and System Boards Troubleshoot Memory Troubleshoot Storage Devices Troubleshoot Power Supplies Troubleshoot Adapter Cards Troubleshoot Display Devices Troubleshoot Input Devices Troubleshoot Multimedia Devices Troubleshoot Other Peripheral Devices <p>Lesson 4: Installing and Troubleshooting Laptops and Portable Devices</p> <ul style="list-style-type: none"> Install and Configure Laptops Troubleshoot Laptops and Portable Devices 	<p>Lesson 5: Installing, Managing, and Optimizing Operating Systems</p> <ul style="list-style-type: none"> Install and Upgrade Operating Systems Operating System Management Utilities Manage Disks and File Systems Optimize Operating Systems <p>Lesson 6: Maintaining and Troubleshooting Operating Systems</p> <ul style="list-style-type: none"> Maintain Operating Systems Troubleshoot Operating Systems Recover Operating Systems <p>Lesson 7: Installing, Maintaining, and Troubleshooting Printers and Scanners</p> <ul style="list-style-type: none"> Install and Configure Printers and Scanners Maintain Printers and Scanners Troubleshoot Printers and Scanners <p>Lesson 8: Networking Technologies</p> <ul style="list-style-type: none"> Network Protocols Internet Technologies Network Connection Technologies <p>Lesson 9: Installing and Managing Network Components</p> <ul style="list-style-type: none"> Install and Configure Web Browsers Create Network Connections Configure Network Resource Sharing Maintain and Troubleshoot Networks <p>Lesson 10: Maintain and Troubleshoot Computer Security</p> <ul style="list-style-type: none"> Security Principles Install and Configure Security Measures Maintain and Troubleshoot Security
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