

Course Name	CompTIA A+
Course Duration	5 Days
Course Structure	Instructor-Led
Course Overview	<p>The CompTIA A+ curriculum includes a third course, the CompTIA A+ Bootcamp, (IN-AA3), it's the accelerated CompTIA A+, a derivative work course consisting of CompTIA A+ Part I (220-901) and CompTIA A+ Part II (220-902) content in its entirety, but with the content merged into a single course. Overlapping content between CompTIA A+ Part I and Part II is eliminated and content is rearranged for the purpose of the course flow.</p> <p>Today's IT professionals face an expanding variety of technical issues. CompTIA A+ has been updated to address the increased diversity of knowledge required of IT technicians and validates what is currently necessary to perform effectively on the job.</p> <p>This course is primarily aimed at those that are already in an IT profession and are seeking to validate their A+ certification skills.</p> <p>Audience profile This course is designed for individuals who have basic computer user skills and who are interested in obtaining a job as an entry-level IT technician. This course is also designed for students who are seeking the CompTIA A+ certification and who want to prepare for the CompTIA A+ 220-901 Certification Exam and the CompTIA 220-902 Certification Exam. Anyone wishing to pursue a career in computer technology.</p>
Course Outcome	<p>After completing this course, students will learn about:</p> <ul style="list-style-type: none"> • Identify the hardware components of personal computers and mobile digital devices. • Identify the basic components and functions of operating systems. • Identify networking and security fundamentals. • Identify the operational procedures that should be followed by professional PC technicians. • Install, configure, and troubleshoot display devices. • Install and configure peripheral components. • Manage system components. • Manage data storage. • Install and configure Microsoft Windows. • Optimize and maintain Microsoft Windows. • Work with other operating systems. • Identify the hardware and software requirements for client environment configurations. • Identify network technologies. • Install and configure networking capabilities. • Support mobile digital devices. • Support printers and multifunction devices. • Identify security threats, vulnerabilities, and controls. • Implement security controls.

	<ul style="list-style-type: none"> • Troubleshoot system-wide issues.
<p>Course Details</p>	<p>Lesson 1: Hardware Fundamentals</p> <ul style="list-style-type: none"> • Topic A: Personal Computer Components • Topic B: Storage Devices • Topic C: Mobile Digital Devices • Topic D: Connection Interfaces <p>Lesson 2: Operating System Fundamentals</p> <ul style="list-style-type: none"> • Topic A: PC and Mobile Operating Systems • Topic B: PC Operating System Tools and Utilities <p>Lesson 3: Networking and Security Fundamentals</p> <ul style="list-style-type: none"> • Topic A: Network Types • Topic B: Network Components • Topic C: Common Network Services • Topic D: Cloud Concepts • Topic E: Security Fundamentals <p>Lesson 4: Safety and Operational Procedures</p> <ul style="list-style-type: none"> • Topic A: Basic Maintenance Tools and Techniques • Topic B: Personal and Electrical Safety • Topic C: Environmental Safety and Materials Handling • Topic D: Professionalism and Communication • Topic E: Organizational Policies and Procedures • Topic F: Troubleshooting Theory <p>Lesson 5: Supporting Display Devices</p> <ul style="list-style-type: none"> • Topic A: Install Display Devices • Topic B: Configure Display Devices • Topic C: Troubleshoot Video and Display Devices <p>Lesson 6: Installing and Configuring Peripheral Components</p> <ul style="list-style-type: none"> • Topic A: Install and Configure Input Devices • Topic B: Install and Configure Output Devices • Topic C: Install and Configure Input/Output Devices • Topic D: Install and Configure Expansion Cards <p>Lesson 7: Managing System Components</p> <ul style="list-style-type: none"> • Topic A: Identify Motherboard Components and Features • Topic B: Install and Configure CPUs and Cooling Systems • Topic C: Install Power Supplies

	<ul style="list-style-type: none">• Topic D: Troubleshoot System Components <p>Lesson 8: Managing Data Storage</p> <ul style="list-style-type: none">• Topic A: Identify RAM Types and Features• Topic B: Troubleshoot RAM Issues• Topic C: Install and Configure Storage Devices• Topic D: Configure the System Firmware• Topic E: Troubleshoot Hard Drives and RAID Arrays <p>Lesson 9: Installing and Configuring Microsoft Windows</p> <ul style="list-style-type: none">• Topic A: Implement Client-Side Virtualization• Topic B: Install Microsoft Windows• Topic C: Use Microsoft Windows• Topic D: Configure Microsoft Windows• Topic E: Upgrade Microsoft Windows <p>Lesson 10: Optimizing and Maintaining Microsoft Windows</p> <ul style="list-style-type: none">• Topic A: Optimize Microsoft Windows• Topic B: Back Up and Restore System Data• Topic C: Perform Disk Maintenance• Topic D: Update Software <p>Lesson 11: Working With Other Operating Systems</p> <ul style="list-style-type: none">• Topic A: The OS X Operating System• Topic B: The Linux Operating System <p>Lesson 12: Customized Client Environments</p> <ul style="list-style-type: none">• Topic A: Types of Common Business Clients• Topic B: Custom Client Environments <p>Lesson 13: Networking Technologies</p> <ul style="list-style-type: none">• Topic A: TCP/IP Properties and Characteristics• Topic B: TCP/IP• Topic C: Internet Connections• Topic D: Ports and Protocols• Topic E: Networking Tools <p>Lesson 14: Installing and Configuring Networking Capabilities</p> <ul style="list-style-type: none">• Topic A: Configure Basic Windows Networking• Topic B: Configure Network Perimeters• Topic C: Using Windows Networking Features• Topic D: Install and Configure SOHO Networks
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	<p>Lesson 15: Supporting Mobile Digital Devices</p> <ul style="list-style-type: none">• Topic A: Install and Configure Exterior Laptop Components• Topic B: Install and Configure Interior Laptop Components• Topic C: Other Mobile Devices• Topic D: Mobile Device Accessories and Ports• Topic E: Mobile Device Connectivity• Topic F: Mobile Device Synchronization• Topic G: Troubleshoot Mobile Device Hardware <p>Lesson 16: Supporting Printers and Multifunction Devices</p> <ul style="list-style-type: none">• Topic A: Printer and Multifunction Technologies• Topic B: Install and Configure Printers• Topic C: Maintain Printers• Topic D: Troubleshoot Printers <p>Lesson 17: Security Threats, Vulnerabilities, and Controls</p> <ul style="list-style-type: none">• Topic A: Common Security Threats and Vulnerabilities• Topic B: General Security Controls• Topic C: Mobile Security Controls• Topic D: Data Destruction and Disposal Methods <p>Lesson 18: Implementing Security Controls</p> <ul style="list-style-type: none">• Topic A: Secure Operating Systems• Topic B: Secure Workstations• Topic C: Secure SOHO Networks• Topic D: Secure Mobile Devices <p>Lesson 19: Troubleshooting System-Wide Issues</p> <ul style="list-style-type: none">• Topic A: Troubleshoot PC Operating Systems• Topic B: Troubleshoot Mobile Device Operating Systems and Applications• Topic C: Troubleshoot Wired and Wireless Networks• Topic D: Troubleshoot Common Security Issues
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