

CompTIA: A+ Essentials (Exam 220-901)

Course ID #: 1200-100-09-W

Hours: 35

Course Content

Course Description:


If you are getting ready for a career as an entry-level information technology (IT) professional or computer service technician, the CompTIA® A+® (Exam 220-901) course is one of the first steps in your preparation. The course will build on your existing user-level knowledge and experience with personal computer (PC) hardware to present fundamental skills and concepts that you will use on the job. In this course, you will acquire the essential skills and information you will need to install, configure, troubleshoot, upgrade, and perform preventive maintenance on PCs and mobile device hardware.

The CompTIA A+ (Exam 220-901) course can benefit you in two ways. Whether you work or plan to work in a mobile or corporate environment where you have a high level of face-to-face customer interaction, where client communication and client training are important, or in an environment with limited customer interaction and an emphasis on hardware activities, this course provides the background knowledge and skills you will require to be a successful A+ technician. It can also assist you if you are preparing to take the CompTIA A+ certification examination, 2016 objectives (exam number 220-901), in order to become a CompTIA A+ Certified Professional.

At Course Completion:

After completing this course, student will be able to:

- Identify the hardware components of personal computers and mobile digital devices.
- Identify networking and security fundamentals.
- Install, configure, and troubleshoot display devices.
- Install and configure peripheral components.
- Manage system components.
- Manage data storage.
- 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.



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Target Student:

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.

To become CompTIA A+ certified, you need to take and pass both exam 220-901 and 220-902.

Prerequisites:

To ensure your success in this course, you should have basic computer user skills, be able to complete tasks in a Microsoft® Windows® environment, be able to search for, browse, and access information on the Internet, and have basic knowledge of computing concepts. You can obtain this level of skills and knowledge by taking any introductory computing course from Logical Operations, such as:

- Using Microsoft® Windows® 10

The prerequisites for this course differ significantly from the prerequisites for the CompTIA certification exams. For the most up-to-date information about the exam prerequisites, complete the form on this page: <http://certification.comptia.org/Training/testingcenters/examobjectives.aspx>.

Topics:

Module 01: Hardware Fundamentals

- Personal Computer Components
- Storage Devices
- Mobile Digital Devices
- Connection Interfaces

Module 02: Networking Fundamentals

- Network Types
- Network Components

Module 03: Supporting Display Devices

- Install Display Devices
- Configure Display Devices
- Troubleshoot Video and Display Devices

Module 04: Installing and Configuring Peripheral Components

- Install and Configure Input Devices
- Install and Configure Output Devices
- Install and Configure Input/Output Devices
- Install and Configure Expansion Cards

Module 05: Managing System Components

- Identify Motherboard Components and Features
- Install and Configure CPUs and Cooling Systems
- Install Power Supplies
- Troubleshoot System Components

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Module 06: Managing Data Storage

- Identify RAM Types and Features
- Troubleshoot RAM Issues
- Install and Configure Storage Devices
- Configure the System Firmware
- Troubleshoot Hard Drives and RAID Arrays

Module 07: Customized Client Environments

- Types of Common Business Clients
- Custom Client Environments

Module 08: Networking Technologies

- TCP/IP Properties and Characteristics
- TCP/IP
- Internet Connections
- Ports and Protocols
- Networking Tools

Module 09: Installing and Configuring Networking Capabilities

- Configure Network Perimeters
- Install and Configure SOHO Networks
- Troubleshoot Wired and Wireless Networks

Module 10: Supporting Mobile Digital Devices

- Install and Configure Exterior Laptop Components
- Install and Configure Interior Laptop Components
- Other Mobile Devices
- Mobile Device Accessories and Ports
- Troubleshoot Mobile Device Hardware

Module 11: Supporting Printers and Multifunction Devices

- Printer and Multifunction Technologies
- Install and Configure Printers
- Maintain Printers
- Troubleshoot Printers

Appendix A: Mapping Course Content to CompTIA A+ Certification Exam 220-901

Appendix B: A+ Command Reference