CompTIA A+ Certification (Exam 220-901)

Duration: *5 Day(s)*

Course Overview

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.

Course Description

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.

Interface Technical Training is an Authorized CompTIA® Training Partner.

Review this course online at https://www.alta3.com/courses/A+901

Objectives

- Identify hardware components and their functionalities.
- Install, configure, and troubleshoot IT systems and devices.
- Understand networking and security principles.
- Support and maintain digital and peripheral devices.

Who Should Attend

- Entry-level IT technicians
- Aspiring computer service technicians
- Students pursuing CompTIA A+ certification
- Basic computer users enhancing IT skills

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.

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: CompTIA Exam Objectives

Course Outline

Lesson 1: Hardware Fundamentals

1. Personal Computer Components
2. Storage Devices
3. Mobile Digital Devices
4. Connection Interfaces

Lesson 2: Networking Fundamentals

5. Network Types
6. Network Components

Lesson 3: Supporting Display Devices

7. Install Display Devices
8. Configure Display Devices
9. Troubleshoot Video and Display Devices

Lesson 4: Installing and Configuring Peripheral Components

10. Install and Configure Input Devices
11. Install and Configure Output Devices
12. Install and Configure Input/Output Devices
13. Install and Configure Expansion Cards

Lesson 5: Managing System Components

14. Identify Motherboard Components and Features
15. Install and Configure CPUs and Cooling Systems
16. Install Power Supplies

17. Troubleshoot System Components

Lesson 6: Managing Data Storage

18. Identify RAM Types and Features
19. Troubleshoot RAM Issues
20. Install and Configure Storage Devices
21. Configure the System Firmware
22. Troubleshoot Hard Drives and RAID Arrays

Lesson 7: Customized Client Environments

23. Types of Common Business Clients
24. Custom Client Environments

Lesson 8: Networking Technologies

25. TCP/IP Properties and Characteristics
26. TCP/IP
27. Internet Connections
28. Ports and Protocols
29. Networking Tools

Lesson 9: Installing and Configuring Networking Capabilities

30. Configure Network Perimeters
31. Install and Configure SOHO Networks
32. Troubleshoot Wired and Wireless Networks

Lesson 10: Supporting Mobile Digital Devices

33. Install and Configure Exterior Laptop Components
34. Install and Configure Interior Laptop Components
35. Other Mobile Devices
36. Mobile Device Accessories and Ports
37. Troubleshoot Mobile Device Hardware

Lesson 11: Supporting Printers and Multifunction Devices

38. Printer and Multifunction Technologies
39. Install and Configure Printers
40. Maintain Printers
41. Troubleshoot Printers

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

Appendix B: A+ Command Reference