

CompTIA A+ Core 1 (Exam 220-1201), Videos & Skill Labs Set

Course Specifications

Course Number: ACI77-003VL_rev1.0

Video and Lab Length: Approximately 30 hours, 23 minutes

Course Introduction

This course is designed to equip you with the essential knowledge and hands-on skills required for the CompTIA A+ Core 1 (220-1201) certification exam. By understanding how to install, configure, maintain, and troubleshoot various computer components, mobile devices, and network connections, you will develop the practical expertise needed to diagnose and resolve issues effectively, provide customer support, and excel in an entry-level IT support specialist role. This foundational knowledge is crucial for managing the technology you encounter daily, both professionally and personally. This video will provide you with an overview of the course and topics that will be covered throughout the course.

Video Enhanced Learning

(4h 23m * 5 Modules * 38 Episodes)

We've enhanced select lab sets with targeted video content to strengthen student readiness and improve lab success. With focused video learning, students get reinforcement of core concepts before they enter the lab, giving them the confidence and context needed to apply skills effectively. Support diverse learning styles, improve lab readiness, and drive stronger outcomes across today's most in-demand skills.

Video Topics

1. Overview
2. Laptop Hardware and Components
3. Mobile Device Displays
4. Mobile Device Network Connections
5. Mobile Device Application Support
6. Ports and Protocols
7. Wireless Protocols
8. Networked Hosts and Services
9. Domain Name System (DNS)
10. Dynamic Host Configuration Protocol (DHCP)

Course Outline

11. Networking Hardware
12. IP Address Format
13. IP Address Configuration
14. Internet Connection Types
15. Network Types
16. Network Tools
17. Mobile Device Ports and Accessories
18. Network Cables
19. Peripheral and Video Cables
20. Storage Device Cables
21. Random-access Memory
22. Storage Devices
23. Motherboards
24. BIOS and UEFI
25. Processors
26. Expansion Cards
27. Power Supplies
28. Printer Configuration
29. Printers
30. Cloud Models and Services
31. Virtualization
32. Troubleshooting Methodology
33. Troubleshooting PC Components
34. Troubleshooting Storage
35. Troubleshooting Display Issues
36. Troubleshooting Mobile Devices
37. Troubleshooting Networks
38. Troubleshooting Printers

Skill Labs

(26h * 26 Labs)

A **skills lab** is a guided, hands-on learning environment that allows students to practice real-world tasks in a safe, virtual setting. Instead of simply reading or watching videos, learners actively do the work—navigating realistic scenarios, applying concepts, troubleshooting issues,

and building confidence through practical experience. This ensures that theory becomes usable skill. Skill labs are essential for developing true workplace readiness because they mirror real systems, tools, and challenges, helping learners bridge the gap between knowledge and performance. By completing a skills lab, students gain the hands-on competence employers expect and are better prepared for both assessments and real job responsibilities.

Skill Labs Topics

1. Replacing a Laptop SSD
2. Replacing a Laptop Battery
3. Replacing a Laptop Keyboard
4. Setting up a Bluetooth Device
5. Installing a Network TAP
6. Connecting to Network-based Devices
7. Configuring a Wi-Fi Network Connection
8. Using Crimpers and Cable Testers
9. Using Punch Down Tools
10. Using Toner Probes
11. CMOS Battery Replacement
12. Verifying UEFI Settings
13. Cooling a Desktop System
14. Changing Inkjet Cartridges
15. Installing a Desktop RAM Module
16. Configuring RAID
17. Installing a Desktop Expansion Card
18. Setting up 2FA
19. Synchronizing Microsoft 365
20. Troubleshooting Network Connectivity
21. Testing with a Loopback Plug
22. Choosing Power Supply Units
23. Configuring a Wi-Fi Network Router
24. Configuring Computer Accessories - Webcam
25. Inspecting Desktop Motherboards
26. Replacing a Laptop RAM Module