Official CompTIA Content for Instructor-Led Training: CompTIA A+ Core 1 and Core 2

Official CompTIA Content for Instructor-Led Training is designed with the instructor in mind, providing insights and tools on how to successfully train learners pursuing their CompTIA A+ Core 1 and Core 2 Exam.

Overview

The Official CompTIA A+ Core 1 & Core 2 Instructor and Student Guides (220-1001 and 220-1002) have been developed by CompTIA with input from instructors across the world. Rigorously evaluated by third-party subject matter experts to validate adequate coverage of both the Core 1 and Core 2 exam objectives in an integrated approach, the Official CompTIA A+ Core 1 & Core 2 Instructor and Student Guides teach the essential skills and information needed to troubleshoot, problem solve and help learners understand issues ranging from networking and operating systems, to mobile devices and security, preparing candidates to take the CompTIA A+ Core 1 and Core 2 Exam.

Official Content:
- The Official CompTIA A+ Core 1 & Core 2 Instructor Guide (Exams 220-1001 and 220-1002) – available in print and eBook
- The Official CompTIA A+ Core 1 & Core 2 Student Guide (Exams 220-1001 and 220-1002) – available in print and eBook
- CompTIA CHOICE Digital Learning Platform – included with purchase of print and eBook
- The Official CompTIA A+ Core 2 LogicalLAB (Exam 220-1002)
Why is Official CompTIA Content different?

• For Exam Takers by the Exam Developer - Official CompTIA Content is the only study material exclusively developed by CompTIA for the CompTIA certification candidate.
• Designed for Instructors by Instructors - Developed on the principle that “people learn best from other people,” the Official CompTIA A+ Guides are specifically designed for expert-facilitated delivery. More than 200 instructors were involved in the development of A+ Official Content providing feedback through focus groups, reviews and surveys.
• Complete Library - No other content library covers all exam objectives for all certifications. It provides complete breadth, depth and currency of material unavailable with competitors.

Key Features and Benefits

• Robust Assessment - Practice questions for each lesson and a final assessment covering all lessons, more than 300 questions in total, are available to help students practice and demonstrate what they have learned. Additionally, performance-based questions help students apply knowledge in actual scenarios.
• Integrate Active Learning - Each topic has at least one activity enabling students to practice guidelines and procedures, as well as solidify understanding of the informational material presented in the course. Activities present a job-plausible scenario or job-realistic assignment and then provide step-by-step instructions for how to approach the problem at hand. Activities may also require the student to analyze sample data, engage in structured discussion or analyze case studies.
• Alignment and Consistency Across Book, Labs and Assessment - The book, labs and assessment work together with a similar approach and voice ensuring that instructors and students have a cohesive, “single-sourced” solution for their A+ courses. Activities within the book inform the classroom labs and the virtual labs designed for the course. Assessments are based on lessons in the book and includes a final cumulative assessment.
• Engaging Video Program Developed Exclusively for CompTIA by ITProTV - Videos developed exclusively for CompTIA by ITProTV provide short, engaging demonstrations of key activities in the course. The videos provide an alternative to hands-on demonstrations for virtual environments or for classrooms that do not have access to all equipment mentioned in the course.

Enhanced Learning Through CompTIA CHOICE

The Official CompTIA Content Instructor and Student Guides and accompanying resources are delivered on the CompTIA CHOICE digital learning platform. The CompTIA CHOICE provides access to the following resources:

• Classroom: A link to the instructor's classroom environment
• eBook: An interactive online version of the book, along with secure PDF and downloadable versions
• Files: Any course files available to download
• Videos: Brief videos, developed exclusively for CompTIA by ITProTV, provide demonstrations of key activities in the course
• Assessment: A series of different assessments for each lesson as well as an overall self-assessment
• Performance-based Questions: Scenario-based interactive exercises to help students apply what they’ve learned
• Checklists: Step-by-step procedures for recurring IT tasks that are part of the course objectives and as post-class references
• Links: Helpful links to certification exam information, CompTIA’s IT Careers blog and additional resources for exam prep
• Locker: A resource allowing for secure file exchange with students

Labs

LogicalLABS, hosted by Learn on Demand Systems, allow students to learn in actual software applications through a remote lab environment. Labs allow students to practice what they are learning using real, hands-on experiences. Students have access to the software environment for 6 months after a LogicalLABS access key is redeemed, providing a post-class resource for students to practice their skills.

Labs Available (Core 2 only):

ACTIVITY 1-4: Using Windows Features and Tools
ACTIVITY 1-7: Managing Files, Folders, and Disks in Windows
ACTIVITY 2-2: Configuring and Using Linux
ACTIVITY 2-5: Deploying a Windows Image
ACTIVITY 3-2: Configuring Windows Applications and Services
ACTIVITY 3-5: Using Windows Troubleshooting Tools
ACTIVITY 4-2: Configuring Network Connection Settings
ACTIVITY 4-8: Troubleshooting Network Connections
ACTIVITY 5-3: Configuring Shared Resources
ACTIVITY 5-5: Configuring Active Directory Accounts and Policies
ACTIVITY 7-3: Configuring Data Protection
ACTIVITY 8-2: Using Anti-Virus Software
ACTIVITY 10-5: Configuring Windows Backup
ACTIVITY 10-7: Using Windows PowerShell

Exam Prep with CertMaster Practice

CompTIA CertMaster Practice, an online certification exam prep tool, quickly assesses a learner's base of knowledge and fills gaps with personalized remediation and feedback. CertMaster Practice for A+ Core 1 and Core 2 includes performance-based questions. These performance-based questions test your ability to solve problems in a simulated environment. By helping learners focus on their weak areas, CertMaster Practice builds their confidence and ensures retention of the material.
CompTIA A+ is the preferred qualifying credential for technical support and IT operational roles. CompTIA A+ certified professionals are proven problem solvers. They support today's core technologies from security to cloud to data management and more. CompTIA A+ is the industry standard for launching IT careers into today's digital world.

In order to receive the CompTIA A+ certification, you must pass two exams: Core 1 (220-101) and Core 2 (220-1002).

Successful candidates will have the knowledge required for:

- **Hardware**
  - Identifying, using, and connecting hardware components and devices

- **Networking**
  - Explain types of networks and connections including TCP/IP, WIFI and SOHO

- **Mobile Devices**
  - Install & configure laptops and other mobile devices

- **Windows Operating Systems**
  - Install and support Windows OS including command line & client support

- **Hardware & Network Troubleshooting**
  - Troubleshoot device and network issues

- **Other OS & Technologies**
  - Understand Mac OS, Linux and mobile OS

- **Security**
  - Identify and protect against security vulnerabilities for devices and their network connections

- **Operational Procedures**
  - Follow best practices for safety, environmental impacts, and communication and professionalism

**Table of Contents:**

**Lesson 1: Supporting Operating Systems**
- Topic A: Identify Common Operating Systems
- Topic B: Troubleshooting Methodology
- Topic C: Use Windows Features and Tools
- Topic D: Manage Files in Windows
- Topic E: Manage Disks in Windows
- Topic F: Manage Devices in Windows

**Lesson 2: Installing and Configuring PC Components**
- Topic A: Use Appropriate Safety Procedures
- Topic B: PC Components
- Topic C: Common Connection Interfaces
- Topic D: Install Peripheral Devices

**Lesson 3: Installing, Configuring, and Troubleshooting Display and Multimedia Devices**
- Topic A: Install and Configure Display Devices
- Topic B: Troubleshoot Display Devices
- Topic C: Install and Configure Multimedia Devices

**Lesson 4: Installing, Configuring, and Troubleshooting Storage Devices**
- Topic A: Install System Memory
- Topic B: Install and Configure Mass Storage Devices
- Topic C: Install and Configure Removable Storage
- Topic D: Configure RAID
- Topic E: Troubleshoot Storage Devices

**Lesson 5: Installing, Configuring, and Troubleshooting Internal System Components**
- Topic A: Install and Upgrade CPUs
- Topic B: Configure and Update BIOS/UEFI
- Topic C: Install Power Supplies
- Topic D: Troubleshoot Internal System Components
- Topic E: Configure a Custom PC

**Lesson 6: Installing, Configuring, and Maintaining Operating Systems**
- Topic A: Configure and Use Linux
- Topic B: Configure and Use macOS
- Topic C: Install and Upgrade Operating Systems
- Topic D: Maintain OSs

**Lesson 7: Maintaining and Troubleshooting Microsoft Windows**
- Topic A: Install and Manage Windows Applications
- Topic B: Manage Windows Performance
- Topic C: Troubleshoot Windows

**Lesson 8: Network Infrastructure Concepts**
- Topic A: Wired Networks
- Topic B: Network Hardware Devices
- Topic C: Wireless Networks
- Topic D: Internet Connection Types
- Topic E: Network Configuration Concepts
- Topic F: Network Services

**Lesson 9: Configuring and Troubleshooting Networks**
- Topic A: Configure Network Connection Settings
- Topic B: Install and Configure SOHO Networks
- Topic C: Configure SOHO Network Security
- Topic D: Configure Remote Access
- Topic E: Troubleshoot Network Connections
- Topic F: Install and Configure IoT Devices

**Lesson 10: Managing Users, Workstations, and Shared Resources**
- Topic A: Manage Users
- Topic B: Configure Shared Resources
- Topic C: Configure Active Directory Accounts and Policies

**Lesson 11: Implementing Client Virtualization and Cloud Computing**
- Topic A: Configure Client-Side Virtualization
- Topic B: Cloud Computing Concepts

**Lesson 12: Security Concepts**
- Topic A: Logical Security Concepts
- Topic B: Threats and Vulnerabilities
- Topic C: Physical Security Measures

**Lesson 13: Securing Workstations and Data**
- Topic B: Implement Data Protection Policies
- Topic C: Protect Data During Incident Response

**Lesson 14: Troubleshooting Workstation Security Issues**
- Topic A: Detect, Remove, and Prevent Malware
- Topic B: Troubleshoot Common Workstation Security Issues

**Lesson 15: Supporting and Troubleshooting Laptops**
- Topic A: Use Laptop Features
- Topic B: Install and Configure Laptop Hardware
- Topic C: Troubleshoot Common Laptop Issues

**Lesson 16: Supporting and Troubleshooting Mobile Devices**
- Topic A: Mobile Device Types
- Topic B: Connect and Configure Mobile Device Accessories
- Topic C: Configure Mobile Device Network Connectivity
- Topic D: Support Mobile Apps
- Topic E: Secure Mobile Devices
- Topic F: Troubleshoot Mobile Device Issues

**Lesson 17: Installing, Configuring, and Troubleshooting Print Devices**
- Topic A: Maintain Laser Printers
- Topic B: Maintain Inket Printers
- Topic C: Maintain, Impact, Thermal, and 3D Printers
- Topic D: Install and Configure Printers
- Topic E: Troubleshoot Print Device Issues
- Topic F: Install and Configure Imaging Devices

**Lesson 18: Implementing Operational Procedures**
- Topic A: Environmental Impacts and Controls
- Topic B: Create and Maintain Documentation
- Topic C: Use Basic Change Management Best Practices
- Topic D: Implement Disaster Prevention and Recovery Methods
- Topic E: Basic Scripting Concepts
- Topic F: Professionalism and Communication

**Job Roles**
- Technical Support Specialist
- Field Service Technician
- IT Support Technician
- IT Support Administrator
Purchase Everything in One Place

Official CompTIA Content is available on the CompTIA Store at store.comptia.com, which means partners will be able to obtain Official CompTIA Content, CompTIA CertMaster products and exam vouchers all in one place.

Please contact your CompTIA business development representative for more information.