# CompTIA A+ Core 1 Training

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Duration: **5 Day**

## Overview

**CompTIA A+ Core 1** is an entry-level certification training program designed for individuals beginning a career in **Information Technology (IT)**. The course provides the essential technical knowledge and practical skills required to support modern computing environments and end users.

Participants will gain hands-on experience with **Mobile Devices**, **Computer Hardware**, **Networking**, **Virtualization**, **Cloud Computing**, and structured **Troubleshooting** methodologies. The program also prepares learners for the official **CompTIA A+ Core 1 (220-1201)** certification exam.

Through practical labs and real-world scenarios, students will develop the skills needed to maintain and support today's mobile and network-connected technologies.

## Prerequisites

Participants should have:

- Basic computer literacy
- Fundamental understanding of operating systems
- Interest in pursuing an **IT Support** or **Help Desk** career

No previous certifications are required.

## Who Should Attend

This course is ideal for:

- Entry-level IT professionals
- Career changers entering the technology sector
- Aspiring **IT Support Specialists**
- Help Desk professionals seeking certification
- Students and graduates pursuing technical careers

## What You Will Learn

By the end of this course, learners will be able to:

- Configure and manage **Mobile Devices** including laptops, tablets, and smartphones.
- Explain core **Networking Concepts** and configure common network devices.
- Install, configure, and troubleshoot **PC Hardware** components.
- Understand and implement **Virtualization** and **Cloud Computing** technologies.
- Diagnose and resolve hardware and network issues using structured methodologies.
- Prepare confidently for the **CompTIA A+ Core 1 (220-1201)** certification exam.

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## Outline

### Mobile Devices

- Mobile device categories and capabilities
- Laptop, tablet, and smartphone configuration
- Mobile device security
- Replacing screens, keyboards, and storage devices
- Mobile accessories and connectivity ports
- Synchronisation and backup solutions

### Networking

- **Routers**, **Switches**, and **Wireless Access Points**
- **TCP/IP Protocols**
- IP addressing and network ports
- Common networking standards
- **Wi-Fi Configuration** and troubleshooting
- Internet connectivity technologies
- **SOHO Network Security** concepts

### Hardware

- PC assembly and disassembly procedures
- **SSD**, **HDD**, and optical storage devices
- Input and output peripherals
- Motherboards, processors, memory, and power supplies
- Printer installation and maintenance
- Hardware upgrade and replacement techniques

### Virtualization and Cloud Computing

- **Virtual Machine (VM)** fundamentals
- Host and guest environments
- **IaaS**, **SaaS**, and **PaaS** cloud models
- Cloud storage and cloud applications
- Benefits and challenges of virtualization
- Client-side virtualization technologies

### Hardware and Network Troubleshooting

- Diagnosing hardware failures
- Structured **Troubleshooting Methodologies**
- Resolving network connectivity issues
- Printer troubleshooting techniques
- Configuration error resolution
- Documentation and escalation procedures