# CompTIA Server+ Training

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Duration: **5 Day**

## Overview

**CompTIA Server+** is a globally recognized **server administration certification** designed for IT professionals responsible for deploying, managing, maintaining, and troubleshooting modern server environments.

This intensive five-day **{*training}** course prepares participants for the official **CompTIA Server+ SK0-005 certification exam**. Throughout the program, learners will develop practical skills in **server hardware management**, **operating system administration**, **storage technologies**, **security controls**, and **disaster recovery planning**.

As organizations increasingly depend on reliable and highly available IT infrastructure, skilled server administrators are essential. This course equips professionals with the technical expertise needed to manage physical and virtual server environments with confidence.

### Why Earn CompTIA Server+?

The **CompTIA Server+ certification** validates the skills required to successfully manage modern server environments and enterprise infrastructure.

Certified professionals demonstrate expertise in:

- **Server Administration**
- **Infrastructure Management**
- **Virtualization**
- **Cloud Computing**
- **Storage Management**
- **Data Security**
- **High Availability**
- **Disaster Recovery**

As organizations continue investing in resilient IT infrastructure, professionals with **server administration skills** remain in high demand. CompTIA Server+ provides a strong foundation for careers such as:

- **System Administrator**
- **Server Administrator**
- **Infrastructure Engineer**
- **Datacenter Specialist**
- **IT Operations Engineer**
- **Technical Support Engineer**

For IT professionals seeking to strengthen their expertise in server technologies and enterprise infrastructure, **CompTIA Server+** remains one of the most respected and practical certifications available.

## Prerequisites

To maximize the benefits of this course, participants should have:

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- Approximately **18 months to 2 years of IT experience**
- Basic understanding of server and network environments
- Familiarity with operating systems and IT infrastructure

While **CompTIA A+ certification** or equivalent knowledge is highly recommended, it is not mandatory.

## Who Should Attend

This course is ideal for professionals working in infrastructure, datacenter, and server administration roles, including:

- **System Administrators**
- **Server Administrators**
- **Infrastructure Specialists**
- **Datacenter Technicians**
- **IT Support Engineers**
- **Network Administrators**
- Infrastructure and operations teams
- IT professionals pursuing a career in **server management**

## What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Understand fundamental **server administration concepts**
- Implement and manage **virtualization** and **cloud computing** technologies
- Apply **physical security** and **network security** controls
- Manage server assets and hardware components
- Configure and administer storage solutions
- Install and configure server operating systems
- Troubleshoot operating system, application, and network issues
- Maintain and secure servers after deployment
- Implement **data security** best practices
- Ensure service continuity and data availability
- Properly decommission server infrastructure

## Outline

### 1. Understanding Server Administration Concepts

This module introduces the core responsibilities and best practices of modern server administration.

Topics include:

- Server administration fundamentals

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- Administrative responsibilities
- Troubleshooting methodologies
- Software and licensing management

## 2. Virtualization and Cloud Computing

Participants explore technologies that power modern datacenters and cloud environments.

Topics include:

- **Virtualization concepts**
- Hypervisors and virtual machines
- Cloud computing fundamentals
- Public, private, and hybrid cloud models
- On-premises versus cloud deployments

## 3. Physical and Network Security

This section focuses on securing server environments against internal and external threats.

Topics include:

- Physical security controls
- Datacenter security measures
- **Network security concepts**
- Access control mechanisms
- Security policies and procedures

## 4. Managing Physical Assets

Effective infrastructure management begins with proper asset control.

Topics include:

- Asset management practices
- Hardware lifecycle management
- Documentation management
- Infrastructure tracking and inventory control

## 5. Managing Server Hardware

Participants learn how to deploy, maintain, and troubleshoot server hardware.

Topics include:

- Physical server components
- Server deployment
- Hardware maintenance
- Storage hardware administration
- Hardware troubleshooting techniques

## 6. Configuring Storage Management

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Storage systems play a critical role in server performance and reliability.

Topics include:

- **Storage management**
- RAID technologies
- SAN and NAS environments
- Storage optimization
- Storage troubleshooting

### 7. Installing and Configuring Operating Systems

This module covers the deployment and configuration of server operating systems.

Topics include:

- Operating system installation
- Server configuration
- Network configuration
- Storage configuration
- Automation through scripting

### 8. Troubleshooting Operating Systems, Applications, and Networks

Participants develop practical troubleshooting skills for enterprise environments.

Topics include:

- Operating system troubleshooting
- Application troubleshooting
- Network configuration issues
- Connectivity problems
- Performance analysis and optimization

### 9. Managing Post-Installation Administrative Tasks

This section focuses on ongoing server administration responsibilities.

Topics include:

- Secure administration practices
- Server function management
- **Server hardening**
- User and permission management
- Patch and update management

### 10. Managing Data Security

Protecting sensitive business data is a critical responsibility of server administrators.

Topics include:

- **Data security concepts**

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- Access control strategies
- Encryption technologies
- Data protection policies
- Security incident management
- Data security troubleshooting

### 11. Managing Service and Data Availability

Participants learn how to maintain business continuity and reduce downtime.

Topics include:

- Backup strategies
- Data restoration processes
- **High Availability (HA)**
- Business continuity planning
- **Disaster Recovery**
- Service availability management

### 12. Decommissioning Servers

The final module focuses on the secure retirement of server infrastructure.

Topics include:

- Server decommissioning processes
- Secure data removal
- Hardware disposal procedures
- Compliance requirements
- End-of-life infrastructure management