CO-SER+

COMPTIA SERVER+

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Intermediate	Server Administration	Instructor Led	NA

INTRODUCTION

CompTIA Server+ validates your skills with the most commonly used server and storage systems in the IT industry. This certification demonstrates an impressive knowledge base that narrows the skills gap and provides the hands-on experience that businesses require. The CompTIA Server+ course builds on your existing professional experience with personal computer hardware support to present the next tier of skills and concepts that you will use on the job when administering any type of network server. If your job duties include server troubleshooting, installation, or maintenance, or if you are preparing for any type of network server-related career, it provides the primary knowledge and skills you will require to be successful.

AUDIENCE PROFILE

This course is designed for IT professionals such as PC, desktop, and help desk technicians who have experience supporting PC hardware who wish to make the transition to become server hardware and support specialists. This course is also designed for existing server managers who are preparing to take the CompTIA Server+ Exam SK0-005.

PREREQUISITES

Before attending the Server+ course delegates should have 18 to 24 months of hands-on experience with installation, configuration, diagnosis, and troubleshooting of PC hardware and network operating system issues. It is also recommended that delegates have the CompTIA A+ certification or the equivalent training and experience. Delegates can obtain this level of skills and knowledge by taking the following courses:

− CompTIA A+
− CompTIA Network+

COURSE OBJECTIVES

 After completing this course, students will be able to:

− Manage server hardware
− Install server hardware and operating systems
− Configure networking hardware and protocols
− Create a virtual server environment
− Perform basic server configuration task
− Administer servers
− Implement server storage solutions
− Secure the server
− Plan and test disaster recovery
− Troubleshoot server issues

COURSE CONTENT

Lesson 1: Managing Server Hardware

− Server Components
− Server Power
− Server Cooling
− Asset Management

Lesson 2: Installing a Server

− Prepare an Installation Plan
− Prepare the Server Hardware
− Set Up the Server Hardware
− Install an Operating System

Lesson 3: Configuring Networking

− Manage Network Cabling
− Configure Network Interface Cards
− Implement IP Addressing and Network Infrastructure Services

Lesson 4: Creating a Virtual Environment

− Create Virtual Servers
− Create Virtual Switches

Lesson 5: Performing Basic Server Configuration

− Configure Local Server Properties
− Configure Server Roles
− Set Up IP Addressing Service Roles

Lesson 6: Administering the Server

− Update the Server
− Server Administration Access and Control Methods

− Create Service Level Agreements
− Monitor Server Performance

Lesson 7: Implementing Storage Solutions

− Perform Capacity Planning
− Deploy Primary Storage Devices
− Storage Technologies
− Configure RAID

Lesson 8: Securing the Server

− Configure Firewalls
− Configure Security Protocols
− Implement Intrusion Detection Systems
− Implement Logical Access Control Methods
− Implement Data Security Methods
− Apply Server Hardening Techniques
− Implement Physical Security
− Create Virtual Networks

Lesson 9: Planning and Testing Disaster Recovery

− Implement Environmental Controls
− Manage Documentation for the Server and the Network
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− Create A Disaster Recovery Plan
− Perform Backup and Restoration

Lesson 10: Troubleshooting Server Issues

− Troubleshoot Theory and Methods
− Troubleshoot Hardware Issues
− Troubleshoot Software Issues
− Troubleshoot Networking Issues
− Troubleshoot Storage Issues
− Troubleshoot Security Issues

SKILLS AND COMPETENCIES COVERED

Server Hardware Installation & Management
18%

- Install physical hardware
- Deploy and manage storage
- Perform server hardware maintenance

Server Administration
30%

- Install server operating systems
- Configure servers to use network infrastructure services
- Configure & maintain server functions and features
- Explain the key concepts of high availability for servers
- Summarize the purpose and operation of virtualization
- Summarize scripting basics for server administration
- Explain the importance of asset management and documentation
- Explain licensing concepts

Security & Disaster Recovery
24%

- Summarize data security concepts
- Summarize physical security concepts
- Explain important concepts pertaining to identity and access management for server administration
- Explain data security risks and mitigation strategies
- Apply server hardening methods
- Summarize proper server decommissioning concepts
- Explain the importance of backups and restores
- Explain the importance of disaster recovery

Troubleshooting
28%

- Explain the troubleshooting theory and methodology
- Troubleshoot common hardware failures
- Troubleshoot storage problems
- Troubleshoot common OS and software problems
- Troubleshoot network connectivity issues
- Troubleshoot security problems

ASSOCIATED CERTIFICATIONS & EXAM

This course is designed to prepare students to take the CompTIA Server+ SK0-005 Exam. Successfully passing this exam will result in the attainment of the CompTIA Server+ Certification.