

CompTIA Server+ Certification (Exam SK0-005)

Class Length

5 Days

Overview

This course builds on existing professional experience with personal computer hardware support to present the next tier of skills & concepts students will use on the job when administering any type of network server. This course covers server hardware installation and management, server administration, security and disaster recovery and troubleshooting. This course also prepares you to take the CompTIA Server+ examination (Exam SK0-005).

Prerequisite Comments

It is expected that, prior to taking this course, you have:
A+ certified or equivalent knowledge.
24 months of hands-on experience working in a server environment.

Target Audience

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 SK0-004.

Course Objectives

In this course you will:

- Build, maintain, troubleshoot, secure and support server hardware and software technologies
- Implement virtualization and storage solutions for local, enterprise and cloud environments
- Understand and comply with disaster recovery and general security procedures
- Be familiar with industry terminology and concepts
- Understand server roles and their interaction in a dynamic computing environment
- Use automation, scripting and virtualization to optimize server management

Understand on-premise and hybrid server environments to accommodate both enterprise and small business needs
Understand server administration and troubleshooting both on-premise and remotely
Be familiar with cloud computing concepts as they apply to server administration and maintenance

Course Outline

1 - Understanding Server Administration Concepts

Topic 1A: Understand Server Administration Concepts

Topic 1B: Understand Troubleshooting Methods

Exam objectives covered: 4.1 Explain the troubleshooting theory and methodology

Topic 1C: Manage License

Exam objectives covered: 2.8 Explain Licensing Concepts

2 - Understanding Virtualization and Cloud Computing

Topic 2A: Understand Virtualization Concepts

Exam objectives covered: 2.5 Summarize the purpose and operation of virtualization

Topic 2B: Understanding Cloud Concepts

Exam objectives covered: 2.5 Summarize the purpose and operation of virtualization

Topic 2C: Understand On-Premises versus Cloud Deployments

Exam objectives covered: 2.5 Summarize the purpose and operation of virtualization.

3 - Understanding Physical and Network Security Concepts

Topic 3A: Understand Physical Security Concepts

Exam objectives covered: 3.2 Summarize Physical Security Concepts

Topic 3B: Understand Network Security Concepts

Exam objectives covered: 2.2 Given a scenario, configure servers to use network infrastructure services

4 - Managing Physical Assets

Topic 4A: Understand Asset Management Concepts

Exam objectives covered: 2.7 Explain the importance of asset management and documentation

Topic 4B: Manage Documentation

Exam objectives covered: 2.7 Explain the importance of asset management and documentation

5 - Managing Server Hardware

Topic 5A: Manage the Physical Server

Exam objectives covered: 1.1 Given a scenario, install physical hardware

Topic 5B: Administer the Server and Storage

Exam objectives covered: 1.1 Given a scenario, install physical hardware

1.3 Given a scenario, perform server hardware maintenance

Topic 5C: Troubleshoot Server Hardware

Exam objectives covered: 4.2 Given a scenario, troubleshoot common hardware failures

6 - Configuring Storage Management

Topic 6A: Manage Storage

Exam objectives covered: 1.2 Given a scenario, deploy and manage storage

Topic 6B: Troubleshoot Storage

Exam objectives covered: 4.3 Given a scenario, troubleshoot storage problems

7 - Installing and Configuring an Operating System

Topic 7A: Install an Operating System

Exam objectives covered: 2.1 Given a scenario, install server operating systems

Topic 7B: Configure Storage

Exam objectives covered: 2.1 Given a scenario, install server operating systems

Topic 7C: Configure Network Settings

Exam objectives covered: 2.2 Given a scenario, configure servers to use network infrastructure services

Topic 7D: Use Scripts to Configure Servers

Exam objectives covered: 2.1 Given a scenario, install server operating systems

2.6 Summarize scripting basics for server administration

8 - Troubleshooting OS, Application, and Network Configurations

Topic 8A: Troubleshoot an Operating System and Applications

Exam objectives covered: 4.4 Given a scenario, troubleshoot common OS and software problems

Topic 8B: Troubleshoot Network Configurations

Exam objectives covered: 4.5 Given a scenario, troubleshoot network connectivity issues

9 - Managing Post-Installation Administrative Tasks

Topic 9A: Understand Secure Administration Practices

Exam objectives covered: 3.3 Explain important concepts pertaining to identity and access management for server administration

Topic 9B: Manage Server Functions

Exam objectives covered: 2.3 Given a scenario, configure and maintain server functions and features

Topic 9C: Configure Server Hardening

Exam objectives covered: 3.5 Given a scenario, apply server hardening methods

10 - Managing Data Security

Topic 10A: Understand Data Security Concepts

Exam objectives covered: 3.1 Summarize data security concepts

Topic 10B: Manage Data Security

Exam objectives covered: 3.4 Explain data security risks and mitigation strategies

Topic 10C: Troubleshoot Data Security

Exam objectives covered: 4.6 Given a scenario, troubleshoot security problems

11 - Managing Service and Data Availability

Topic 11A: Manage Data Backup and Restore

Exam objectives covered: 3.7 Explain the importance of backups and restores

Topic 11B: Manage High Availability

Exam objectives covered: 2.4 Explain the key concepts of high availability for servers

Topic 11C: Manage Disaster Recovery

Exam objectives covered: 3.8 Explain the importance of disaster recovery

12 - Decommissioning Servers

Topic 12A: Decommission Servers

Exam objectives covered: 3.6 Summarize proper server decommissioning concepts