



## Server +

**Description:** The Server+ class is a middle-level, vendor-neutral training aimed primarily at candidates who have approx. 18-24 months experience working in or around a server environment. This class helps you become competent in server technology, installations and configuration, troubleshooting, maintenance, upgrading and disaster recovery. While there are no specific pre-requisites, it should be noted that the class is targeted toward mid-level technicians so adequate knowledge of networks and hardware is required. To that end, those who are considering doing the Server+ certification as an entry level training might be more suited to other offerings such as the Network+ or A+ first. Approximately 10 – 15% of the objectives for both the Network+ and the A+ overlap into the Server+, so having those classes under your belt first will give you a good foundation to move onto the Server+ class (although it is not a requirement). The Server+ Certification Exam by COMPTIA is an industry exam that is available from authorized testing centers.

### Session 1: Introduction to Servers

- Investigating Different Types of Servers
- Identifying Server Types
- Identifying Server Hardware
- Identifying Parts of Computer Subsystems
- Identifying Components of the System Processing Core
- Identifying Drive Types and Implementations
- Identifying Components and Features of the Communications Subsystem
- Identifying UPS Types
- Identifying Server-specific Components Found in Other Subsystems
- Identifying Network Operating Systems and Other Software
- Identifying Network Operating System Features
- Identifying Other Server Software

### Session 2: Installing Servers

- Planning for Server Installation
- Discussing the Planning Process
- Adding Server Hardware
- Installing Server Hardware
- Discussing Rackmount Servers and Physical Installation
- Verifying the Installation
- Verifying the Hardware Installation

### Session 3: Configuring Servers

- Checking and Upgrading BIOS and Firmware Levels
- Checking the BIOS Level
- Configuring RAID
- Configuring Hardware RAID
- Installing Network Operating Systems and Other Software
- Testing the Server Installation
- Configuring External Peripheral Devices
- Installing System Monitoring Agents and Service Tools
- Documenting the Server



#### **Session 4: Maintaining Servers**

- Backing Up Server Data
- Baselining Servers and Monitoring Server Performance
- Setting SNMP Thresholds
- Discussing SNMP
- Keeping the Server Clean
- Discussing Physical Maintenance of Servers
- Verifying Hardware
- Establishing Remote Notification
- Setting Up and Verifying Remote Notification

#### **Session 5: Upgrading Server Components**

- Creating and Using Upgrade Check Lists
- Discussing Upgrade Check Lists
- Adding and Replacing Hardware
- Upgrading Server Software
- Installing NOS Updates
- Updating Drivers

#### **Session 6: Exploring Environmental Issues Surrounding Servers**

- Evaluating the Physical Security of Servers
- Evaluating the Physical Security of Servers
- Evaluating the Server Room Environment
- Evaluating the Server Room Environment

#### **Session 7: Troubleshooting Servers**

- Reviewing General Troubleshooting Information
- Reviewing Troubleshooting Concepts
- Discussing Troubleshooting Precautions
- Analyzing the Problem and its Cause
- Discussing Server Troubleshooting
- Using Diagnostic Software Investigating Wake-on-LAN Technology
- Identifying Bottlenecks
- Discussing Bottlenecks

#### **Session 8: Exploring Disaster Recovery Concepts and Techniques**

- Ensuring Redundancy and Availability
- Discussing Fault-tolerance
- Backups
- Discussing Backup Strategies
- Creating a Disaster Recovery Plan
- Discussing Professional Data-recovery Services