

# uCertify

# Course Outline

## CompTIA Server+



28 Apr 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary  
Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

Syllabus

Chapter 1: Introduction

Chapter 2: Server hardware

Chapter 3: Hardware troubleshooting

Chapter 4: Operating systems, roles, and virtualization

Chapter 5: Server maintenance and troubleshooting

Chapter 6: Server administration

Chapter 7: Storage technologies

Chapter 8: Server network connections

Chapter 9: Network communications

Chapter 10: Troubleshooting networking problems

Chapter 11: Server security fundamentals

Chapter 12: Securing the server

Chapter 13: Disaster planning and recovery

Videos and How To

9. Practice Test

Here's what you get

Features

10. Live labs

Lab Tasks

Here's what you get

11. Post-Assessment

## 1. Course Objective

Get hands-on experience of Server+ with the comprehensive CompTIA Server+ course and lab. The lab provides hands-on learning in installing, managing, and troubleshooting servers in data centers as well as on-premise and hybrid environments. The course and lab deal with essential hardware and software technologies of on-premise and hybrid server environments including high availability, cloud computing and scripting, and many more.

## 2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

## 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.



## 4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

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**QUIZZES**

## 5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.

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**FLASHCARDS**

## 6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.

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**GLOSSARY OF  
TERMS**

## 7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

## 8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

## 9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

## 10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

## 11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

## Syllabus

Chapter 1: Introduction

Chapter 2: Server hardware

- Module A: Form factors and racking



- Module B: Server components
- Module C: Server power
- Summary

### Chapter 3: Hardware troubleshooting

- Module A: The troubleshooting process
- Module B: Common hardware problems
- Module C: Hardware tools and techniques
- Summary

### Chapter 4: Operating systems, roles, and virtualization

- Module A: Operating systems
- Module B: OS installation
- Module C: Server roles and capabilities
- Module D: Server virtualization
- Summary: Operating systems, roles, and virtualization

### Chapter 5: Server maintenance and troubleshooting

- Module A: Hardware maintenance

- Module B: Software troubleshooting
- Module C: Asset and document management
- Summary: Server maintenance and troubleshooting

## Chapter 6: Server administration

- Module A: Administrative methods
- Module B: Monitoring
- Module C: Operations scripting
- Summary: Server administration

## Chapter 7: Storage technologies

- Module A: Storage solutions
- Module B: Storage planning and management
- Module C: Storage troubleshooting
- Summary

## Chapter 8: Server network connections

- Module A: Communication models
- Module B: Networking hardware

- Module C: Network cabling
- Summary

## Chapter 9: Network communications

- Module A: Network addresses
- Module B: Address resolution and assignment
- Module C: Network storage
- Summary: Network communications

## Chapter 10: Troubleshooting networking problems

- Module A: Network connectivity tools
- Module B: Troubleshooting connectivity
- Summary: Troubleshooting networking problems

## Chapter 11: Server security fundamentals

- Module A: Server security principles
- Module B: Identity and access management
- Module C: Data security
- Summary: Server security fundamentals

## Chapter 12: Securing the server

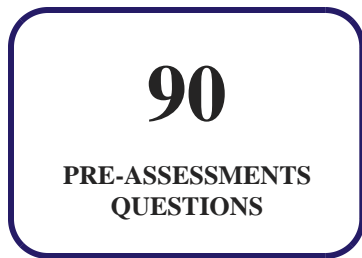
- Module A: Physical environment and security
- Module B: Server hardening
- Module C: Security tools and techniques
- Module D: Common security problems
- Summary

## Chapter 13: Disaster planning and recovery

- Module A: High availability
- Module B: Disaster recovery
- Module C: Backups and restores
- Module D: Server decommissioning
- Summary

## 12. Practice Test

**Here's what you get**



## Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

### Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

## 13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

# Lab Tasks

## **Server hardware**

- Identifying the RAM Slot
- Identifying the CPU Socket
- Installing the Motherboard Components
- Configuring the BIOS/UEFI
- Replacing the PSU

## **Operating systems, roles, and virtualization**

- Installing Debian 11
- Managing Windows Server
- Installing Windows Server 2016
- Adding Roles and Features
- Importing and Creating VMs with Hyper-V

## **Server maintenance and troubleshooting**

- Troubleshooting Linux
- Troubleshooting Windows

## **Server administration**

- Using Command-Line Tools in Linux
- Using Command-Line Tools in Windows
- Examining Linux Monitoring Tools
- Viewing Event Logs in Linux
- Monitoring Performance
- Viewing Event Logs in Windows

## **Storage technologies**

- Creating a Virtual Disk
- Managing Disks in Windows Server
- Creating and Removing a Partition on Linux
- Examining Linux Command-Line Tools

#### **Server network connections**

- Viewing and Configuring Ethernet Options
- Identifying the MT-RJ Optical Connector
- Identifying the Unshielded-Twisted Pair Copper Wire

#### **Network communications**

- Creating Firewall Rules in Iptables
- Viewing Address Information
- Configuring Rules in Windows Firewall
- Editing the Hosts File
- Examining and Creating DNS Records
- Configuring a Static IP address in Windows
- Using iSCSI
- Creating an SMB File Share

#### **Troubleshooting networking problems**

- Using TCP/IP Tools in Linux
- Using TCP/IP Tools in Windows

#### **Server security fundamentals**

- Viewing Linux Security Logs
- Researching Security Threats
- Enforcing Audit Policies
- Delegating Control in Active Directory
- Enforcing Account Security Policies
- Creating a Domain User
- Creating Active Directory Groups

- Enabling BitLocker in Windows Server

### Securing the server

- Updating Ubuntu
- Creating a Security Template
- Enforcing a Security Template
- Scanning Hosts with Nmap
- Checking File Integrity
- Performing a Virus Scan

### Disaster planning and recovery

- Creating Redundant Storage
- Configuring NIC Teaming
- Scheduling a Windows Server Backup
- Enabling Shadow Copies in Windows

## Here's what you get

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LIVE LABS

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VIDEO TUTORIALS

**01:50**

HOURS

## 14. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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[www.ucertify.com](http://www.ucertify.com)