

uCertify

Course Outline

CompTIA Server+



18 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: Managing Server Hardware

Chapter 2: Installing a Server

Chapter 3: Configuring Networking

Chapter 4: Creating a Virtual Environment

Chapter 5: Performing Basic Server Configuration

Chapter 6: Administering the Server

Chapter 7: Implementing Storage Solutions

Chapter 8: Securing the Server

Chapter 9: Planning and Testing Disaster Recovery

Chapter 10: Troubleshooting Server Issues

Chapter 11: Appendix A

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

Gain hands-on expertise in the CompTIA SK0-004 exam with CompTIA Server+ course and live-lab. Live-lab is a real computer equipment, networked together and conveniently accessible over the Internet using virtualization. This course and live-lab cover all the objectives of the SK0-004-LO: CompTIA Server+ exam and provides skills in the areas of server networking, administration, storage, disaster recovery, architecture, security, and troubleshooting.

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.

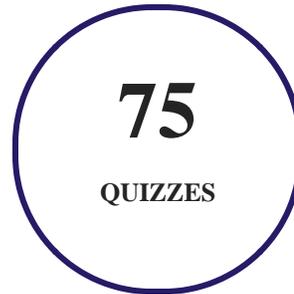
3. Exercises

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.

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EXERCISES

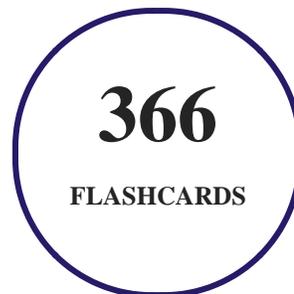
4. Quizzes

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.



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.



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.



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: Managing Server Hardware

- TOPIC A: Server Components
- TOPIC B: Server Power
- TOPIC C: Server Cooling

- TOPIC D: Asset Management
- Summary
- Review All the Key Topics

Chapter 2: Installing a Server

- TOPIC A: Prepare an Installation Plan
- TOPIC B: Prepare the Server Hardware
- TOPIC C: Set Up the Server Hardware
- TOPIC D: Install an Operating System
- Summary
- Review All the Key Topics

Chapter 3: Configuring Networking

- TOPIC A: Manage Network Cabling
- TOPIC B: Configure Network Interface Cards
- TOPIC C: Implement IP Addressing and Network Infrastructure Services
- Summary
- Review All the Key Topics

Chapter 4: Creating a Virtual Environment

- TOPIC A: Create Virtual Servers
- TOPIC B: Create Virtual Switches
- Summary
- Review All the Key Topics

Chapter 5: Performing Basic Server Configuration

- TOPIC A: Configure Local Server Properties
- TOPIC B: Configure Server Roles
- TOPIC C: Set Up IP Addressing Service Roles
- Summary
- Review All the Key Topics

Chapter 6: Administering the Server

- TOPIC A: Update the Server
- TOPIC B: Server Administration Access and Control Methods
- TOPIC C: Create Service Level Agreements
- TOPIC D: Monitor Server Performance

- Summary
- Review All the Key Topics

Chapter 7: Implementing Storage Solutions

- TOPIC A: Perform Capacity Planning
- TOPIC B: Deploy Primary Storage Devices
- TOPIC C: Storage Technologies
- TOPIC D: Configure RAID
- Summary
- Review All the Key Topics

Chapter 8: Securing the Server

- TOPIC A: Configure Firewalls
- TOPIC B: Configure Security Protocols
- TOPIC C: Implement Intrusion Detection Systems
- TOPIC D: Implement Logical Access Control Methods
- TOPIC E: Implement Data Security Methods
- TOPIC F: Apply Server Hardening Techniques
- TOPIC G: Implement Physical Security

- TOPIC H: Create Virtual Networks
- Summary
- Review All the Key Topics

Chapter 9: Planning and Testing Disaster Recovery

- TOPIC A: Implement Environmental Controls
- TOPIC B: Manage Documentation for the Server and the Network
- TOPIC C: Create A Disaster Recovery Plan
- TOPIC D: Perform Backup and Restoration
- Summary
- Review All the Key Topics

Chapter 10: Troubleshooting Server Issues

- TOPIC A: Troubleshoot Theory and Methods
- TOPIC B: Troubleshoot Hardware Issues
- TOPIC C: Troubleshoot Software Issues
- TOPIC D: Troubleshoot Networking Issues
- TOPIC E: Troubleshoot Storage Issues

- TOPIC F: Troubleshoot Security Issues
- Summary
- Review All the Key Topics

Chapter 11: Appendix A

- Mapping Course Content to the CompTIA® Server+® Exam (SK0-004)

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

9

VIDEOS

30

MINUTES

12. Practice Test

Here's what you get

50

**PRE-ASSESSMENTS
QUESTIONS**

2

FULL LENGTH TESTS

100

**POST-ASSESSMENTS
QUESTIONS**

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

Managing Server Hardware

- Set Automatic Windows Update

Installing a Server

- Installing Windows Server 2012 using Hyper-V Manager

Configuring Networking

- Configuring private IPv4
- Configuring private IPv6
- Assign new IP address with DNS and subnet mask

Creating a Virtual Environment

- Install a loopback adapter

Performing Basic Server Configuration

- Running any application as administrator
- Running any application as administrator using command line
- Concept of SSO possibility
- Add roles and features
- TCP open ports (netstat)
- NAT (Network Address Translation)

Administering the Server

- Disabling a service in linux
- Swap or Pagefile Optimization
- Disabling a service

Implementing Storage Solutions

- Compress a file to save disk space
- Compress a folder to save disk space
- Set Quota Usage Limit
- Set size of a log file

Securing the Server

- Configuring the Network-based Firewall
- Router Access List
- NTFS File permission
- EFS (Encryption File System)
- Disk-Level Encryption
- Configuring VPN
- Configure VLAN

Planning and Testing Disaster Recovery

- Incremental Backup
- Full Backup
- Perform Restore Point

Troubleshooting Server Issues

- Adding a printer and sharing
- Do trace route
- Using Top command
- Create and mount Virtual Hard Disk using Disk Management
- Use of Zenmap

Here's what you get

34

LIVE LABS

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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