uCertify
Course Outline

Server+ (2005)

05 Oct 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: General Server Hardware Knowledge

   Chapter 2: INSTALLATION

   Chapter 3: CONFIGURATION

   Chapter 4: UPGRADING

   Chapter 5: PROACTIVE MAINTENANCE

   Chapter 6: ENVIRONMENT

   Chapter 7: TROUBLESHOOTING AND PROBLEM DETERMINATION

   Chapter 8: DISASTER RECOVERY

   Videos and How To

9. Practice Test

   Here's what you get

   Features

10. Performance Based labs

    Lab Tasks

    Here's what you get

11. Post-Assessment

1. Course Objective

The CompTIA Server+ certification is an industry recognized vendor neutral credential for networking professionals. The certification is proof of a person's competence across a wide spectrum of server issues and technology, including disaster recovery and provesand proves knowledge of server, hardware and software.

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.
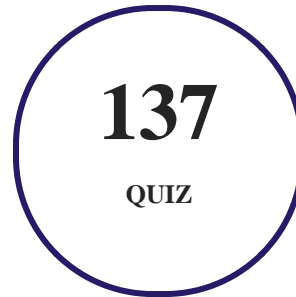
3. Exercises

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.

249

EXERCISES

4. Quiz

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.

137

QUIZ

5. 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.

6. 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.

7. 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.

8. 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

9. 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: General Server Hardware Knowledge

- Know the characteristics, purpose, function, lim...Plug PCI PCI Expansion Slots PCI Interrupts EISA

- Know the characteristics of adapter fault tolerance.Adapter load balancing adapter teaming

- Know the basic purpose and function of the follo...er DNS Server WINS Server DHCP Server Web Server

- Description of the following hardware types, inc...: Blade servers Tower servers Rack-mount servers

- Know the function of the following application s...Distributed Application Peer to peer application

- Know the characteristics of the following types ..., Hardware compatibility list , Memory caching .

- Know differences between different SCSI solution...tasking Multi-threading Disconnect and reconnect

- Know differences between different ATA (IDE) sol...nd connectors Master/slave/cable Jumper settings

- Know the features and benefits of fibre channel ...Bus lengths Point-to-point vs. switched vs. LOOP

- Know the features and benefits of iSCSI and FCIP...nnectors 1 Gbit, 2 Gbit, and 10 Gbit Bus lengths

- Know the features and capabilities of the follow...e RAID and the advantages of one over the other.

- Know the characteristics of hot swap drives and hot plug boards.

- Know the features, advantages, and disadvantages of multiprocessing.

- Know the attributes, purpose, function, and adva...lability, high availability and fault tolerance.

- Understand the processor subsystem of a server. ...ocessing systems and 64-bit Server Environments.

- Know the basic specifications of and differences between SAN and NAS. Block and file.

Chapter 2: INSTALLATION

- Conduct pre-installation planning activities: Pl...ach, and Power issues (stability, spikes, etc.).

- Install hardware using best practices. Mount the...ermination Verify power-on via power-on sequence

- Develop the server management plan (in-band and out-of-band management).

Chapter 3: CONFIGURATION

- Check/upgrade BIOS/firmware levels (system board, RAID, controller, hard drive, etc.)

- Configure RAID. Activities include: use manufact...gure the array and testing (simulate a failure).

- Install NOS. Configure network and verify network connectivity

- Configure external peripherals (UPS, external dr...heral devices such as Firewire, USB, Serial ATA.

- Install NOS updates to design specifications. Ac...nd how to decide whether an update is necessary.

- Update manufacturer specific drivers

- Install service tools (SNMP, backup software, system monitoring agents, event logs, etc.)

- Perform Server baseline. Supporting knowledge in...ght be useful, When baselines should be updated.

- Document the configuration.

Chapter 4: UPGRADING

- Perform full backup and verify backup

- Add Processors and verify compatibility, N 1 ste...ist, review FAQs, instruction, facts and issues.

- Add, replace and verify hard drives. Add drives ...st, Review FAQs, instructions, facts and issues.

- Add or upgrade memory. Verify hardware and OS su...erver optimization to make use of additional RAM

- Upgrade BIOS/firmware: Perform upgrade checklist...cognized; review and baseline; document upgrade.

- Upgrade adapters (e.g., NICs, SCSI cards, RAID, ...ist, review FAQs, instruction, facts and issues.

- Upgrade peripheral devices, and verify appropria...ist, review FAQs, instruction, facts and issues.

- Upgrade system monitoring agents. Perform upgrad...ist, review FAQs, instruction, facts and issues.

- Upgrade service tools (e.g., diagnostic tools, E...ist, review FAQs, instruction, facts and issues.

- Upgrade UPS. Perform upgrade checklist, review FAQs, instruction, facts and issues.

Chapter 5: PROACTIVE MAINTENANCE

- Perform regular backup

- Create baseline and compare performance

- Set SNMP thresholds

- Perform physical housekeeping

- Perform hardware verification

- Establish remote notification..

Chapter 6: ENVIRONMENT

- Recognize and report on physical security issues...-theft devices for hardware (lock server racks).

- Recognize and report on server room environmenta...generator/fire suppression/flood considerations)

Chapter 7: TROUBLESHOOTING AND PROBLEM DETERMINATION

- Perform problem determination using questioning ...l of smoke, observation of unhooked cable, etc.)

- Use diagnostic hardware and software tools and u...Microsoft Windows NT/2000/2003, UNIX, and Linux.

- Identify bottlenecks (e.g., processor, bus transfer, I/O, disk I/O, network I/O, memory)

- Identify and correct misconfigurations and/or upgrades

- Determine if problem is hardware, software or virus related

Chapter 8: DISASTER RECOVERY

- Plan implement and test the redundancy, fault to...O, Disk to disk, and Libraries vs. stand-alones.

10. ⊕ Practice Test

Here's what you get

30	4	55
PRE-ASSESSMENTS QUESTIONS	**FULL LENGTH TESTS**	**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.

11. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

Lab Tasks

Here's what you get

12. 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

Here's what you get

13. 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.

GET IN TOUCH:

3187 Independence Drive
Livermore, CA 94551,
United States

+1-415-763-6300

support@ucertify.com

www.ucertify.com