

uCertify

Course Outline

CompTIA Network N10-007 Cert Guide



29 Mar 2024

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1. Course Objective

Kick start your prep for the CompTIA N10-007 exam with the CompTIA Network+ N10-007 Cert Guide. The study guide covers exam objectives and topics such as design and implement functional networks; configure, manage, and maintain essential network devices; use devices such as switches and routers to segment network traffic and create resilient networks; identify benefits and drawbacks of existing network configurations; troubleshoot network problems; support the creation of virtualized networks, 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.

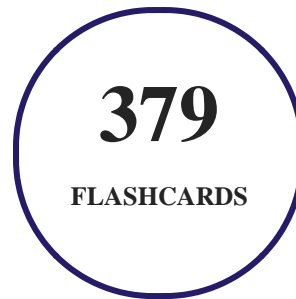
3. Quizzes

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.

144
QUIZZES

4. 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.



5. 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.



6. 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.

7. 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.

8. 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.

9. 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

10. 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: Computer Network Fundamentals

- Defining a Network
- Networks Defined by Geography
- Networks Defined by Topology
- Wireless Topologies
- Networks Defined by Resource Location
- Real-World Case Study

- Summary
- Review All the Key Topics

Chapter 3: The OSI Reference Model

- The Purpose of Reference Models
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 4: Network Components

- Media
- Network Infrastructure Devices
- Specialized Network Devices
- Virtual Network Devices
- Voice over IP Protocols and Components
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 5: Ethernet Technology

- Principles of Ethernet
- Ethernet Switch Features
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 6: IPv4 and IPv6 Addresses

- Binary Numbering
- IPv4 Addressing
- Assigning IPv4 Addresses
- Subnetting
- IP Version 6
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 7: Routing IP Packets

- Basic Routing Processes
- Sources of Routing Information
- Routing Protocol Characteristics
- Routing Protocol Examples
- Address Translation
- Multicast Routing
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 8: Wide Area Networks (WANs)

- WAN Properties
- WAN Technologies
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 9: Wireless Technologies

- Introducing Wireless LANs

- Deploying Wireless LANs
- Securing Wireless LANs
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 10: Network Optimization

- High Availability
- QoS Technologies
- Case Study: SOHO Network Design
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 11: Command-Line Tools

- Windows Commands
- UNIX Commands
- Real-World Case Study

- Summary
- Review All the Key Topics

Chapter 12: Network Management

- Maintenance Tools
- Network Documentation
- Monitoring Resources and Reports
- Remote Access Methods
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 13: Network Security

- Security Fundamentals
- Categories of Network Attacks
- Defending Against Attacks
- Remote-Access Security
- Firewalls
- Virtual Private Networks

- Intrusion Detection and Prevention
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 14: Network Policies and Best Practices

- Policies
- Best Practices
- Real-World Case Study
- Summary
- Review All the Key Topics

Chapter 15: Network Troubleshooting

- Troubleshooting Basics
- Physical Layer Troubleshooting
- Data Link Layer Troubleshooting
- Network Layer Troubleshooting
- Wireless Troubleshooting

- Specialized Networks
- Real-World Case Study
- Troubleshooting Scenarios
- Summary
- Review All the Key Topics

Videos and How To

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

241

VIDEOS

56

MINUTES

11. Practice Test

Here's what you get

127

**PRE-ASSESSMENTS
QUESTIONS**

2

FULL LENGTH TESTS

126

**POST-ASSESSMENTS
QUESTIONS**

Features

uCertify provides video training courses that contain videos and test set questions based on the exam. These courses are interactive and engaging and the learners can view the content at their own pace, in their own time, and on any device. Learners can easily track the engagement levels so they immediately know which course components are easy to understand and which are more difficult. Test set in the courses closely follow the exam objectives and are designed to simulate real exam conditions.

Each pre and post assessment comes with interactive questions which help users in better understanding of the subject matter.

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.

12. 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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