

 uCertify

Course Outline

CCNA ICND2 200-105 Pearson
uCertify Network Simulator V4.4



Live-Lab

Contents

1. Course Objective
2. Expert Instructor-Led Training
3. ADA Compliant & JAWS Compatible Platform
4. State of the Art Educator Tools
5. Award Winning Learning Platform (LMS)
6. Live Labs
 - Lab Tasks
 - Here's what you get

1. Course Objective

Gain hands-on expertise in Cisco ICND1-100-105 exam with Pearson uCertify Network Simulator V4.2. It is a real computer equipment, networked together and conveniently accessible over the Internet using virtualization. It focuses on the objectives of Cisco ICND1-100-105 exam and provides skills in configuring, managing, and implementing Cisco devices. It also provides knowledge of addressing and subnetting of IPv4 and IPv6, operating Cisco routers; enabling learning of IPv4 routes with OSPFv2, configuring and verifying host connectivity, subnet design, VLSM, IPv4 Access Control Lists (ACL), Network Address Translation (NAT); and performing routing of IPv6 and troubleshooting network.

2. 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.

3. 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.

4. 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 assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

5. 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 4 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

6. Live Labs

Live-Lab is a real computer equipment, networked together and conveniently accessible over the

internet using virtualization. A live-lab has equipments such as a computer, server, switch or router in it that a user is free to configure.

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

Chapter 3: Spanning Tree Protocol Implementation

- STP Configuration I
- STP Configuration II
- STP Configuration III
- Static EtherChannel
- Dynamic EtherChannel I
- Dynamic EtherChannel II
- Dynamic EtherChannel III
- Dynamic EtherChannel IV
- Portfast Configuration I
- Portfast Configuration II
- BPDU Guard Configuration I
- BPDU Guard Configuration II
- STP Analysis
- STP Configuration
- STP Prediction Drills I

- STP Prediction Drills II
- STP Prediction Drills III
- STP Prediction Drills IV
- Path Analysis III
- STP Feature Troubleshooting

Chapter 4: LAN Troubleshooting

- Path Troubleshooting I
- STP Troubleshooting

Chapter 5: VLAN Trunking Protocol

- VTP Configuration I
- VTP Configuration II
- VTP Configuration III
- VTP Configuration IV
- VTP Configuration V
- VTP I
- VTP Transparent Mode

Chapter 8: Implementing OSPF for IPv4

- Interpreting the show ip route output
- OSPF Serial Configuration I
- OSPF Serial Configuration II
- OSPF Serial Configuration III
- OSPF Serial Configuration IV
- OSPF Serial Configuration V
- OSPF Serial Configuration VI
- OSPF Router ID I
- OSPF Router ID II
- OSPF Metric Tuning I
- OSPF Metric Tuning II
- OSPF Metric Tuning III

- OSPF Neighbors I
- OSPF Neighbors II
- OSPF Neighbors III
- OSPF Neighbors IV
- OSPF Neighbors V
- OSPF Interface Configuration I
- OSPF Interface Configuration II
- OSPF Configuration I
- OSPF Configuration II
- OSPF Configuration III
- OSPF Metric Manipulation

Chapter 10: Implementing EIGRP for IPv4

- EIGRP Serial Configuration I
- EIGRP Serial Configuration II
- EIGRP Serial Configuration III
- EIGRP Serial Configuration IV
- EIGRP Serial Configuration V
- EIGRP Serial Configuration VI
- EIGRP Route Tuning I
- EIGRP Route Tuning II
- EIGRP Route Tuning III
- EIGRP Route Tuning IV
- EIGRP Neighbors I
- EIGRP Neighbors II
- EIGRP Neighbors III
- EIGRP Auto-summary
- EIGRP Configuration I
- EIGRP Configuration II
- EIGRP Metric Manipulation
- EIGRP Variance and Maximum Paths

Chapter 11: Troubleshooting IPv4 Routing Protocols

- Path Analysis IV
- EIGRP Troubleshooting
- IP Routing
- OSPF Troubleshooting I
- OSPF Multiarea Troubleshooting

Chapter 12: Implementing External BGP

- eBGP Peering I
- eBGP Peering II
- eBGP Network Configuration I
- eBGP Network Configuration II

Chapter 13: Implementing Point-to-Point WANs

- Serial Link Configuration I
- Serial Link Configuration II
- Serial Link Configuration III
- Serial Link Configuration IV
- Serial Configuration I
- Serial Configuration II
- Serial Authentication I
- Serial Authentication II
- Serial Link Configuration

Chapter 15: Private WANs with Internet VPN

- GRE Tunnel Configuration I
- GRE Tunnel Configuration II
- GRE Tunnel Configuration III
- GRE Tunnel Configuration IV
- GRE Tunnel Troubleshooting

Chapter 16: Basic IPv4 Access Control Lists

- Standard ACL

Chapter 17: Advanced IPv4 Access Control Lists

- ACL I
- ACL II
- ACL III
- ACL IV
- ACL V
- ACL VI
- ACL Analysis I
- Named ACL I
- Named ACL II
- Named ACL III
- Extended ACL I
- Extended ACL II

Chapter 19: IPv4 Routing in the LAN

- MLS Configuration I
- MLS Configuration II
- MLS Configuration III
- MLS IPv6 Configuration I
- MLS IPv6 Configuration II
- Router-on-a-Stick to MLS I
- Router-on-a-Stick to MLS II
- MLS Troubleshooting
- Router-on-a-Stick Troubleshooting

Chapter 20: Implementing HSRP for First-Hop Routing

- HSRP Configuration I
- HSRP Configuration II

- HSRP Configuration III
- HSRP Configuration IV
- HSRP Configuration

Chapter 21: Troubleshooting IPv4 Routing

- Path Troubleshooting III

Chapter 22: IPv6 Routing Operation and Troubleshooting

- IPv6 Address Configuration V
- IPv6 Address Configuration VI
- IPv6 Address Configuration VII
- IPv6 Address Configuration VIII
- IPv6 Address Configuration IX
- IPv6 Routing

Chapter 23: Implementing OSPF for IPv6

- IPv6 Routing Configuration I
- IPv6 Routing Configuration II
- IPv6 Routing Configuration III
- OSPF for IPv6 Serial Configuration I
- OSPF for IPv6 Serial Configuration II
- OSPF for IPv6 Serial Configuration III
- OSPF for IPv6 Serial Configuration IV
- OSPF for IPv6 Serial Configuration V
- OSPF for IPv6 Serial Configuration VI
- OSPF for IPv6 Router ID I
- OSPF for IPv6 Router ID II
- OSPF for IPv6 Metric Tuning I
- OSPF for IPv6 Metric Tuning II
- OSPF for IPv6 Metric Tuning III
- OSPF for IPv6 Neighbors I
- OSPF for IPv6 Neighbors II

- OSPF for IPv6 Neighbors III
- OSPF for IPv6 Neighbors IV
- OSPF for IPv6 Neighbors V
- OSPF for IPv6 Neighbors VI
- OSPF for IPv6 Neighbors VII
- OSPF for IPv6 Neighbors VIII
- OSPF for IPv6 Troubleshooting I
- OSPF for IPv6 Troubleshooting II

Chapter 24: Implementing EIGRP for IPv6

- EIGRP for IPv6 Serial Configuration I
- EIGRP for IPv6 Serial Configuration II
- EIGRP for IPv6 Serial Configuration III
- EIGRP for IPv6 Serial Configuration VI
- EIGRP for IPv6 Route Tuning I
- EIGRP for IPv6 Route Tuning II
- EIGRP for IPv6 Route Tuning III
- EIGRP for IPv6 Route Tuning IV
- EIGRP for IPv6 Neighbors I
- EIGRP for IPv6 Neighbors II
- EIGRP for IPv6 Configuration
- EIGRP for IPv6 Metric Manipulation
- EIGRP for IPv6 Troubleshooting

Chapter 25: IPv6 Access Control Lists

- IPv6 ACL I
- IPv6 ACL II
- IPv6 ACL III
- IPv6 ACL IV
- IPv6 ACL V
- IPv6 ACL VI
- IPv6 ACL Analysis I
- Advanced IPv6 ACL I

- Advanced IPv6 ACL II

Chapter 26: Network Management

- SNMP Configuration I
- SNMP Configuration II
- SNMP Configuration III
- IP SLA Configuration I
- IP SLA Configuration II
- SPAN Configuration I
- SPAN Configuration II

LAN Switching

- VLAN Configuration: Assessment
- STP Configuration: Assessment
- STP Prediction: Assessment
- STP Features Configuration: Assessment
- Virtual Trunking Protocol (VTP) Configuration: Assessment
- EtherChannel: Assessment
- Multiprotocol Switching (MLS) Configuration: Assessment
- ICND2 Switching Final Exam: Assessment

WAN

- Serial Link Configuration: Assessment

Routing

- Routing OSPF: Assessment
- Routing OSPF, Load Balancing, and Metric Manipulation: Assessment
- IPv6 Routing - OSPF for IPv6: Assessment
- Routing EIGRP, Load Balancing, and Metric Manipulation: Assessment
- IPv6 Routing - EIGRP: Assessment
- External Border Gateway Protocol (eBGP) Configuration: Assessment
- ICND2 Routing Final Exam: Assessment

Services

- IPv6 Access List Configuration: Assessment
- HSRP Configuration: Assessment
- Generic Routing Encapsulation (GRE) Configuration: Assessment
- SNMP Configuration: Assessment
- IP Service Level Agreement Configuration: Assessment

Troubleshooting

- Troubleshooting VLANs: Assessment
- STP Troubleshooting: Assessment
- Troubleshooting Path Analysis: Assessment
- Troubleshooting OSPF: Assessment
- Troubleshooting EIGRP: Assessment

Here's what you get



Have Any Query? We Are Happy To Help!

GET IN TOUCH:

■ Call: +1-415-763-6300

■ Email: sales@ucertify.com

■ www.ucertify.com