

# Implementing and Operating Cisco Collaboration Core Technologies



## Training recipients

- Students preparing to take the CCNP Collaboration certification
- Network administrators
- Network engineers
- Systems engineers



## Benefits

This course will help you:

- Integrate and troubleshoot Cisco Unified Communications Manager with Lightweight Directory Access Protocol (LDAP) for user synchronization and user authentication
- Implement Cisco Unified Communications Manager provisioning features
- Configure and troubleshoot collaboration endpoints
- Earn 64 credits toward recertification



## Training program

- Describing the Cisco Collaboration Solutions Architecture
- Exploring Call Signaling over IP Networks
- Integrating Cisco Unified Communications Manager LDAP
- Implementing Cisco Unified Communications Manager Provisioning Features
- Exploring Codecs
- Describing Dial Plans and Endpoint Addressing
- Implementing MGCP Gateways

- Implementing Voice Gateways
- Configuring Calling Privileges in Cisco Unified Communications Manager
- Implementing Toll Fraud Prevention
- Implementing Globalized Call Routing
- Implementing and Troubleshooting Media Resources in Cisco Unified Communications Manager
- Describing Cisco Instant Messaging and Presence
- Enabling Cisco Jabber®
- Configuring Cisco Unity Connection Integration
- Configuring Cisco Unity Connection Call Handlers
- Describing Collaboration Edge Architecture
- Analyzing Quality Issues in Converged Networks
- Defining QoS and QoS Models
- Implementing Classification and Marking
- Configuring Classification and Marking on Cisco Catalyst Switches

#### Lab outline

- Using Certificates
- Configure IP Network Protocols
- Configure and Troubleshoot Collaboration Endpoints
- Troubleshoot Calling Issues
- Configure and Troubleshoot LDAP Integration in Cisco Unified Communications Manager
- Deploy an IP Phone Through Auto and Manual Registration
- Configure Self-Provisioning
- Configure Batch Provisioning
- Explore the Cisco VoIP Bandwidth Calculator
- Configure Regions and Locations
- Implement Endpoint Addressing and Call Routing
- Implement PSTN Calling Using MGCP Gateways
- Configure and Troubleshoot Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI)
- Examine Cisco IOS Gateway Inbound and Outbound Dial-Peer Functions
- Implement and Troubleshoot Digit Manipulation on a Cisco IOS Gateway
- Configure Calling Privileges
- Implement Toll Fraud Prevention on Cisco Unified Communications Manager
- Implement Globalized Call Routing
- Deploy an On-Premise Cisco Jabber Client for Windows
- Configure the Integration Between Unity Connection and Cisco UCM
- Manage Unity Connection Users
- EAI: Configure QOS



## Expected preparation of the participant

- Working knowledge of fundamental terms of computer networking, including LANs, WANs, switching, and routing
- Basics of digital interfaces, Public Switched Telephone Networks (PSTNs), and Voice over IP (VoIP)
- Fundamental knowledge of converged voice and data networks and Cisco Unified Communications Manager deployment



## Training Includes

- 5 days of work with a trainer
- Trainer's supervision
- Contact with community
- Coursebook
- Lab environment

### Training method

- lecture
- workshops



## Language

- Training: English
- Materials: English

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## Examination method

The training prepares you for the 350-801 CLCOR exam, which can be taken for an additional fee at the PearsonVUE center. The exam can also be taken online. Details are available at:

<https://home.pearsonvue.com/cisco/onvue>