

CISCO TRAINING ON DEMAND Implementing and Operating Cisco Collaboration Core Technologies (CLCOR) v1.0

The Implementing and Operating Cisco Collaboration Core Technologies (CLCOR) v1.0 course helps you prepare for advanced-level roles focused on implementation and operation of Cisco collaboration solutions. You will gain the knowledge and skills needed to implement and deploy core collaboration and networking technologies, including infrastructure and design, protocols, codecs, and endpoints, Cisco Internetwork Operating System (IOS®) XE gateway and media resources, call control, Quality of Service (QoS), and additional Cisco collaboration applications. This course earns you 64 Continuing Education (CE) credits towards recertification.

Duration

Instructor-led training: 5 days in the classroom with hands-on lab practice, plus the equivalent of 3 days of self-paced material

Virtual instructor-led training: 5 days of web-based classes with hands-on lab practice, plus the equivalent of 3 days of self-paced material

E-learning: Equivalent of 8 days of content with videos, practice, And challenges

Objectives

After completing this course, you should be able to:

Describe the Cisco Collaboration solutions architecture

Compare the IP Phone signaling protocols of Session Initiation Protocol (SIP), H323, Media Gateway Control Protocol (MGCP), and Skinny Client Control Protocol (SCCP)

Integrate and troubleshoot Cisco Unified Communications Manager with LDAP for user synchronization and user authentication

Implement Cisco Unified Communications Manager provisioning features

Describe the different codecs and how they are used to transform analogue voice into digital streams

Describe a dial plan, and explain call routing in Cisco Unified Communications Manager

Configure classification and marking options on Cisco Catalyst® switches



Course Prerequisites

The knowledge and skills recommended before attending this course are:

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

Course Outline

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

Labs Outline

Discovery Lab 3.16: Implement a +E.164-Based Dial Plan for International Multisite Deployments
Discovery Lab 4.8: Implement a URI-Based Dial Plan for Multisite Deployments
Discovery Lab 7.9: Implement Enhanced Location CAC
Discovery Lab 8.10: Implement Device Mobility
Discovery Lab 9.9: Implement Cisco Extension Mobility
Discovery Lab 15.12: Implement ILS and GDPR

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