

CLFNDU**Understanding Cisco Collaboration Foundations**

40 horas

Collaboration

Cisco

Cisco Continuing Education Credits**21 CE Credits****INTRODUÇÃO**

The Understanding Cisco Collaboration Foundations (CLFNDU) training gives you the skills and knowledge needed to administer and support a simple, single-site Cisco® Unified Communications Manager (UCM) solution with Session Initiation Protocol (SIP) gateway. The training covers initial parameters, management of devices including phones and video endpoints, management of users, and management of media resources, as well as Cisco Unified Communications solutions maintenance and troubleshooting tools. In addition, you will learn the basics of SIP dial plans including connectivity to Public Switched Telephone Network (PSTN) services, and how to use class-of-service capabilities.

This training does not lead directly to a certification exam, but it does cover foundational knowledge that can help you prepare for several Cisco Certified Network Professional (CCNP) and other professional-level collaboration trainings and exams.

OBJETIVO DO CURSO

After taking this course, you should be able to:

- Define collaboration and describe the main purpose of key devices in a Cisco collaboration on-premise, hybrid, and cloud deployment model
- Configure and modify required parameters in Cisco UCM, including service activation, enterprise parameters, UCM groups, time settings, and device pool
- Deploy and troubleshoot IP phones via auto registration and manual configuration within Cisco UCM
- Describe the call setup and teardown process for a SIP device including codec negotiation using Session Description Protocol (SDP) and media channel setup
- Manage Cisco UCM user accounts (local and via Lightweight Directory Access Protocol [LDAP]) including the role/group, service profile, UC service, and credential policy
- Configure dial plan elements within a single site Cisco Unified CM deployment including Route Groups, Local Route Group, Route Lists, Route Patterns, Translation Patterns, Transforms, SIP Trunks, and SIP Route Patterns
- Configure Class of Control on Cisco CM to control which devices and lines have access to services
- Configure Cisco UCM for Cisco Jabber and implement common endpoint features including call park, softkeys, shared lines, and pickup groups
- Deploy a simple SIP dial plan on a Cisco Integrated Service Routers (ISR) gateway to enable access to the PSTN network
- Manage Cisco UCM access to media resources available within Cisco UCM and Cisco ISR gateways
- Describe tools for reporting and maintenance including Unified Reports, Cisco Real-Time Monitoring Tool (RTMT), Disaster Recovery System (DRS), and Call Detail Records (CDRs) within Cisco UCM
- Describe additional considerations for deploying video endpoints in Cisco UCM
- Describe the integration of Cisco Unity® with Cisco UCM and the default call handler

PÚBLICO-ALVO

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

PRÉ-REQUISITOS

This course is intended to be an entry-level course. There are no specific prerequisite Cisco courses; however, the following skills are required:

- Internet web browser usability knowledge and general computer usage
- Knowledge of Cisco Internetwork Operating System (Cisco IOS®) command line

CONTEÚDO PROGRAMÁTICO

- Define Collaboration Technology and Benefits
- Administering Initial Parameters for Cisco Unified Communications Manager
- Exploring Endpoints and the Registration Process
- Exploring Codecs and Call Signaling
- Managing Users in Cisco Unified Communication Manager
- Describing a Basic Dial Plan
- Describing Class of Service
- Enabling Endpoints and Features
- Configure Common Endpoint Features
- Describing the Cisco ISR as a Voice Gateway
- Exploring Cisco Unified Communication Manager Media Resources
- Reporting and Maintenance
- Exploring Additional Requirements for Video Endpoints
- Describing Cisco Unity Connection

\n

Lab outline

\n

- Configure Cisco Unified Communication Manager Initial Parameters
- Configure the Cisco Unified CM Core System Settings
- Deploy an IP Phone Through Auto and Manual Registration
- Administer Endpoints in Cisco Unified Communications Manager
- Create a Local User Account and Configure LDAP
- Adding Users in Cisco Unified Communications Manager
- Create a Basic Dial Plan
- Explore Partitions and Call Search Spaces
- Describe Private Line Automatic Ringdown (PLAR)
- Deploy an On-Premise Cisco Jabber® Client for Windows
- Implement Common Endpoint Features
- Implement Single-Site Extension Mobility
- Configure Jabber
- Configure Voice over Internet Protocol (VoIP) Dial Peers
- Configure Integrated Service Digital Network (ISDN) Circuits and Plain Old Telephone Service (POTS) Dial Peers
- Control Access to Media Resources
- Use Reporting and Maintenance Tools
- Explore Endpoint Troubleshooting Tools
- Explore the Video Endpoint Command Line Interface
- Examine the Integration between Unity Connection and Cisco Unified CM
- Manage Unity Connection Users