CLFNDU - UNDERSTANDING CISCO COLLABORATION FOUNDATIONS V2.0

Course Code: 100616

The Understanding Cisco Collaboration Foundations (CLFNDU) course shows you how to support a Cisco® Unified Communications Manager (UCM) solution with Session Initiation Protocol (SIP) gateway.

The Understanding Cisco Collaboration Foundations (CLFNDU) course gives you the skills and knowledge needed to administer and support a simple, single-site Cisco® support a Cisco® Unified Communications Manager (UCM) solution with Session Initiation Protocol (SIP) gateway. It 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 course 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.

This course is eligible for 21 Continuing Education (CE) credits (ILT & ELT modality).

What You'll Learn

After taking this course, you should be able to:

- Describe benefits of using Cisco collaboration solution, collaboration deployment models, and components of collaboration solution in on-premises, cloud, and hybrid deployments
- Explore different codecs used in voice and video calls and explain how SIP signaling is used to set up and teardown calls
- Identify Cisco Unified Communications Manager User Types and use Active Directory to manage Users in Cisco Unified Communications Manager
- Identify the appropriate Cisco Unified IP Phone software solution for registration, recognize different Cisco Unified IP Phone models and their supported software, and identify various models of Webex video endpoints
- Provide an understanding of Cisco Unified Communications Manager, including its deployment models, cluster architecture, network requirements, collaboration services, administration tools, and redundancy strategies to design, implement, and maintain robust collaboration networks

- Examine the lifecycle of Cisco collaboration endpoints
- Understand the dial plans and call routing in Cisco Unified Communications Manager including the key components, digit manipulation techniques, translation patterns, and practical skills to create and configure a basic dial plan
- Configure a class of service elements in the Cisco Unified Communications Manager
- Provide an overview of the reporting and maintenance tools available for managing and monitoring Cisco Unified Communications systems
- Analyze media resources within Cisco Unified Communications systems, including conferencing solutions, transcoders, media termination points, and music on hold, to optimize their configuration and usage
- Describe the differences between a rendezvous, Meet-Me and ad hoc conference, describe how to create a SIP Trunk for Cisco Meeting Server in Cisco Unified Communications Manager, and how to set up media resources to support ad hoc and Meet-Me conferences
- Analyze the deployment, integration, and use cases of Cisco Instant Messaging and Presence Service alongside Cisco Unified Communications Manager to optimize communication through scalable, redundant, and secure solutions
- Evaluate the features, deployment options, and integration of Cisco Jabber with Cisco Unified Communications Manager to optimize communication workflows, enhance team collaboration, and provide a smooth transition to modern communication solutions
- Analyze Cisco Unity Connection components, architecture, and call handlers, focusing on the system's deployment, configuration, and user management to optimize communication workflows and enhance user experience
- Describe the Cisco Edge Services Components
- Analyze the architecture and configuration of Cisco Expressway Zones, as well as the role of Search Rules, security certificates, and encryption strategies to enable efficient and secure voice, video, and collaboration services between internal and external networks
- Analyze the architecture and configuration of Cisco Unified Border Element, including its key features for signaling and media interworking, security demarcation, toll-fraud prevention, and call admission control to enable secure, cost-effective voice and video connectivity across disparate VoIP networks
- Describe how to access the Control Hub and navigate the menus to setup a Webex collaboration solution
- Introduce User administration in Control Hub
- Explore the registration process to Control Hub
- Examine Webex Calling options using the Control Hub
- Explore admin-configurable features and user configurable features in Webex calling
- Describe Reporting and Maintenance
- Provide a technical understanding of Cisco Webex cloud and hybrid media resources, including voicemail management, Edge Audio, and Video Mesh

- Describe Cisco Webex Hybrid Cloud Connected Unified Communications
- Describe Webex Hybrid Services

Who Needs to Attend

- Students preparing to take the CCNP Collaboration certification
- Network Administrators
- Network Engineers
- Systems Engineers

Prerequisites

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

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CLASSROOM LIVE	$4,395 USD	5 Day

Classroom Live Outline

- Collaboration Technology and Benefits
- Codecs and Call Signaling
- User Management in Cisco Unified Communications Manager
- Endpoints and Phones
- Initial Parameters Administration for Cisco Unified Communications Manager
- Registration Process to Cisco Unified Communications Manager
- Basic Dial Plan
- Class of Service
- Reporting and Maintenance
- Media Resources
- Cisco Meeting Server Integration with Cisco Unified Communications Manager
- Cisco Instant Messaging and Presence Service
- Soft Client Registration to Cisco Unified Communication Manager
- Cisco Unity Connection
- Edge Services
- Cisco Expressway Series
- Cisco Unified Border Element
- Control Hub
- User Management in Control Hub
- Registration Process to Control Hub
- Webex Calling Options
- Webex Calling Features
- Cloud Management and Troubleshooting
- Cloud and Hybrid Media Resources
- Cisco Webex Hybrid Cloud Connected Unified Communications
- Cisco Webex Hybrid Services

Classroom Live Labs

- Create a Local User Account and Configure LDAP
- Configure Cisco Unified Communication Manager Initial Parameters
- Configure Cisco Unified Communications Manager Core System Settings
- Deploy an IP Phone Through Manual Registration
- Create a Basic Dial Plan
- Explore Partitions and CSSs
- Use Reporting and Maintenance Tools
- Register Cisco Meeting Server to Cisco Unified Communications Manager
- Register Cisco Jabber Client to Cisco Unified Communications Manager
- Configure the Integration Between Cisco Unity Connection and Cisco Unified Communications Manager
- Manage Cisco Unity Connection Users
- Explore the Configuration of Traversal Zones in Cisco Expressway
- Explore the Cisco Unified Border Element Interoperability between VoIP Networks
- Explore the Configuration of Webex Control Hub
- Add Users to Webex Control Hub
- Configure Webex Calling Using Cisco Calling Plans
- Configure Webex Calling Features in Control Hub

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VIRTUAL CLASSROOM LIVE	$4,395 USD	5 Day

Virtual Classroom Live Outline

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- Codecs and Call Signaling
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- Endpoints and Phones
- Initial Parameters Administration for Cisco Unified Communications Manager
- Registration Process to Cisco Unified Communications Manager
- Basic Dial Plan
- Class of Service
- Reporting and Maintenance
- Media Resources
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- Cisco Instant Messaging and Presence Service
- Soft Client Registration to Cisco Unified Communication Manager
- Cisco Unity Connection
- Edge Services
- Cisco Expressway Series
- Cisco Unified Border Element
- Control Hub
- User Management in Control Hub
- Registration Process to Control Hub
- Webex Calling Options
- Webex Calling Features
- Cloud Management and Troubleshooting
- Cloud and Hybrid Media Resources
- Cisco Webex Hybrid Cloud Connected Unified Communications
- Cisco Webex Hybrid Services

Virtual Classroom Live Labs

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Jul 27 - 31, 2026 | 8:30 AM - 4:30 PM EDT

Aug 24 - 28, 2026 | 8:30 AM - 4:30 PM EDT

Nov 30 - Dec 4, 2026 | 8:30 AM - 4:30 PM EST

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ON-DEMAND	$1,500 USD

On-Demand Outline

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On-Demand Labs

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PRIVATE GROUP TRAINING	5 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.