

# Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)

- **Formato do curso:** Presencial e Live Training
- **Preço:** 2995€
- **Duração:** 35 horas

The **Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)** course provides you with knowledge about Cisco® Expressway Series solutions enabling business-to-business (B2B) calls, Cisco Mobile, remote access, authentication options, and additional Cisco Expressway Series features. Through a combination of lessons and hands-on labs, you will learn how to leverage collaborative technology to access secure, collaborative work supports including video, voice, content, and remote workloads.

This course also prepares you for the **300-820 Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)** exam.

## This course will help you:

- Acquire the knowledge and skills to use the tools and systems designed to facilitate team-based collaboration whether in-office or remote.
- Gain hands-on experience in using Cisco Expressway software for secure, remote access for phones, endpoints, smartphones, tablets, video, and other communication devices to support nontraditional workspaces.
- Prepare for the **300-820 CLCEI** exam

## Destinatários

Collaboration Engineers involved in the design, implementation and troubleshooting of Cisco collaboration technologies, as well as administrators involved in the support and troubleshooting of Cisco collaboration technologies.

## Pré-requisitos

Before taking this course, you should have the following knowledge and skills:

- Understanding of networking technologies
- Understanding voice and video

- Knowledge of Cisco collaboration core technologies
- Session Initiation Protocol (SIP) and Extensible Messaging and Presence Protocol (XMPP) signaling protocol fundamentals
- Collaboration call control fundamentals of Cisco Unified Communications Manager

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

- Understanding Cisco Collaboration Foundations (CLFNDU)
  - [Implementing and Operating Cisco Collaboration Core Technologies \(CLCOR\)](#)
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## Objetivos

After taking this course, you should be able to:

- Configure and troubleshoot Cisco Unified Communications Manager and Cisco Expressway Series integration
  - Describe the Cisco Expressway-C additional features
  - Configure and troubleshoot Cisco Collaboration solutions for B2B calls
  - Describe how to secure B2B communication with Cisco Expressway Series
  - Describe the Mobile and Remote Access (MRA) feature
  - Describe the Cisco Expressway MRA security and integration options, including integration with Cisco Unity® Connection and Cisco Instant Messaging and Presence (IM&P)
  - Configure Cisco Webex® Hybrid Services
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## Metodologia

Instructor-led training: 5 days in the classroom with hands-on lab practice

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## Programa

### **Configuring and Troubleshooting the Cisco Expressway Series**

- Cisco Expressway Series Architecture
- Describe SIP and H.323 in the Cisco Expressway Series
- Describe Interworking in the Cisco Expressway Series
- Zones
- Digit String Manipulation
- Search Rules
- Transforms
- Troubleshoot Call Processing the Cisco Expressway Series
- Backup and Restore

### **Configuring Cisco Expressway Additional Features**

- Describe Bandwidth Management
- Hardening Local Endpoint Registrations
- Describe Cisco Expressway Security and Clustering Features

## **Configuring and Troubleshooting Cisco Unified Communications Manager and Cisco Expressway Series**

- Cisco Unified Communications Manager and Cisco Expressway-C Integration Overview
- Call Flow
- Dial Plan Overview
- Call Policy
- Troubleshooting Options for Cisco Unified Communication Manager and Cisco Expressway-C Integration

## **Configuring and Troubleshooting Cisco Collaboration Solutions for Business-to-Business**

- Describe Supported Services for B2B Collaboration
- Describe Prerequisites for Business to Business Collaboration
- Call Flow Including Cisco Unified Communications Manager Endpoints
- Network Address Translation in a Collaboration Environment
- Cisco Expressway Series B2B Call Troubleshooting

## **Securing Business-to-Business Communication**

- Firewall Traversal
- Certificates
- Secure Media
- Secure Media Between Cisco Unified Communications Manager and Cisco Expressway Series
- Toll Fraud Prevention

## **Configuring and Troubleshooting Mobile and Remote Access**

- Describe Prerequisites for Mobile and Remote Access
- Describe Service Discovery
- Explore Expressway Settings for MRA
- Certificates
- HTTP Proxy
- Cisco Jabber Registration Procedure
- Cisco Jabber Registration in Hybrid Deployment
- Cisco Jabber Configuration File
- MRA Troubleshooting

## **Integrating and Securing Mobile and Remote Access**

- Secure Cisco Unified Communications Integration
- Cisco Unity Connection Integration
- Cisco MRA Access Control Options
- Additional Cisco MRA Features

## Configuring Cisco Webex Hybrid Services

- Cisco Webex Teams
- Describe Cisco Webex Control Hub
- Describe Cisco Webex Hybrid Media Services
- Describe Cisco Expressway Network Requirements for Using Hybrid Call Service Connect
- Explore Cisco Expressway Requirements for Using Hybrid Call Service Connect
- Describe Cisco Webex Video Mesh

## Labs

- Deploy Virtualized Cisco Expressway
- Perform the Initial Cisco Expressway Series Configuration
- Register Endpoints on Cisco Expressway Series
- Call Search History and Registration
- Troubleshooting Tools
- Configure Cisco Expressway Series Bandwidth Management and Registration Restrictions
- Troubleshoot Cisco Expressway Series Endpoint Registration and Local Dial Plan
- Configure Cisco Expressway Series Security Features
- Configure Cisco Unified Communications Manager to Connect with Cisco Expressway-C
- Troubleshoot Cisco Unified Communications Manager and Cisco Expressway Series Integration
- Configure Cisco Unified Communications Manager and Cisco Expressway Series Integration (Practice Activity)
- Implement a B2B Cisco Collaboration Solution
- Troubleshoot B2B Calls on the Cisco Expressway Series
- Troubleshoot B2B Calls on the Cisco Expressway Series (practice activity)
- Secure a B2B Cisco Collaboration Communication
- Configure MRA on the Cisco Expressway Series
- Troubleshoot MRA on the Cisco Expressway Series
- Configure MRA with Additional Application Integrations
- Prepare for Cisco Webex Teams Integration
- Configure Cisco Webex Hybrid Services

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