Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) v1.0

What you'll learn in this course

The **Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)** v1.0 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.

Course duration

- Instructor-led training: 5 days in the classroom with hands-on lab practice
- E-Learning: Equivalent to 5 days classroom instruction

How you'll benefit

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

What to expect in the exam

The **300-820 CLCEI** exam certifies your knowledge and skills related to collaboration cloud and edge solutions, expressway configurations, and Cisco WebEx Teams™ hybrid and emerging technologies. After you pass **300-820 CLCEI**, you earn the **Cisco Certified Specialist - Collaboration Cloud and Edge Implementation** certification, and you satisfy the concentration exam requirement for this professional-level certification:

- CCNP® Collaboration

Who should enroll

This course is designed for professionals in job roles such as:

- Collaboration engineers
- Collaboration administrators

How to enroll

- For instructor-led training, visit the Cisco Learning Locator
- For private group training, visit Cisco Private Group Training
- For e-learning, visit the Cisco Learning Network Store
- For digital library access, visit Cisco Learning Library
- For other ways to purchase e-learning, contact us at: learning-bdm@cisco.com.

Technology areas

- Collaboration

Course details

Objectives

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

Prerequisites

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)**

Outline

- Configuring and Troubleshooting the Cisco Expressway Series
- Configuring Cisco Expressway Additional Features
- Configuring and Troubleshooting Cisco Unified Communications Manager and Cisco Expressway Series
- Configuring and Troubleshooting Cisco Collaboration Solutions for Business-to-Business

- Securing Business-to-Business Communication

- Configuring and Troubleshooting Mobile and Remote Access

- Integrating and Securing Mobile and Remote Access

- Configuring Cisco Webex Hybrid Services

Lab outline

- 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

Course content is dynamic and subject to change without notice.

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