

# Cisco Interoperability with Microsoft Workshop

## WORKSHOP OVERVIEW

This Cisco Interoperability with Microsoft Workshop will prepare students to configure the Cisco On-Premises components, including Cisco Unified Communications Manager (CUCM), Cisco Expressway Core and Expressway Edge, and Cisco Meeting Server to ready them for integration with a Microsoft environment. Students will understand the core components that make up a Microsoft On-Premises and Cloud-based UC solution, and learn how to integrate it with the Cisco On-Premises solution. Then students will be introduced to the Cisco Webex Cloud collaboration solution and discover how to set up a hybrid environment between Webex and Cisco On-Premises solutions.

## WHO WILL BENEFIT FROM THIS COURSE?

Target Audience: Engineers responsible for integrating, and administrators responsible for day-to-day operations of a Cisco-Microsoft hybrid solution.

## PREREQUISITES

What should the student know before attending this course:

- Basic understanding of Cisco Collaboration architecture (CUCM, IMP, CUBE, Expressway)
- Basic administration of Cisco Unified Communications Manager and IMP (MAC-D)
- Familiarity with the function and operation of Cisco Expressway
- Familiarity with the administration of Microsoft components such as Active Directory

## COURSE OBJECTIVES

After completing this course, you should be able to...

- Provide an overview of the base components that make up an On-Premises Cisco Collaboration Solution
- Configure a Cisco UCM for basic operation, such as registration and call control
- Configure a Cisco Expressway C/E for basic operation, such as registration and call control
- Configure calling between UCM and Expressway Endpoints
- Configure a Cisco Meeting Server and Cisco Meeting Manager for hosting meetings within the On-Premises environment
- Identify the architectural overview of a Cloud UC Solution
- Identify how to use Microsoft UC Solutions
- Describe the interoperability between Cisco UC and Microsoft
- Identify the main functions of the Webex solution and devices
- Identify initial Webex configurations
- Demonstrate a knowledge of the Webex hybrid services
- Identify the advantages of Webex Edge Solutions



## COURSE OUTLINE

### Module 1: Cisco On-Premises Collaboration Solution

#### Lesson 1: Architectural Overview

- UCM, IMP, CUC
- Expressway
- CUBE
- CMS

#### Lesson 2: Base configuration for UCM

- Dial Plan Components
- IMP settings
- Register endpoints

#### *Lab: Configure UCM*

#### Lesson 3: Base Configuration for Expressway C/E

- SIP and H.323 Registration
- Call Processing Order
- Subzones and Zones
- Traversal Capabilities

#### *Lab: Configure Expressways*

#### Lesson 4: Calling between UCM and EXP endpoints

- SIP Trunks and SIP Trunk Security Profiles on UCM
- Route Patterns and SIP Route Patterns on UCM
- Neighbor Zones and Search Rules on Expressway Core

#### *Lab: Configure calling between UCM and EXP endpoints*

#### Lesson 5: Base Configuration for CMS

- Features and Capabilities
- Deployment Models
- Services
- CMM Overview

#### *Lab: Configure CMS with UCM and Expressways-C*

### Module 2: Microsoft UC Solution and Cisco Interoperability

#### Lesson 6: Architectural Overview of a Cloud UC Solution

- Components of a modern UC Environment (Messaging, Meeting, VoIP/PSTN Calling)
- Deployment Options (On-Premises, Cloud, Hybrid)

#### Lesson 7: Microsoft UC Solutions

- Microsoft Skype for Business
- Microsoft Teams (O365/Azure, clients/endpoints)
- Enabling MS Teams

#### *Lab: Setup a Microsoft Teams solution*

#### Lesson 8: Interop between Cisco UC and Microsoft

- Messaging between Cisco and MS Teams
- Meetings between Cisco and MS Teams
- Calling between Cisco and MS Teams

#### *Lab: Enabling Cisco and MS Teams Interop*



### **Module 3: Webex by Cisco Cloud Collaboration Solution**

#### **Lesson 9:** Introduction to Webex by Cisco

- Messaging
- Meeting
- Calling (Webex, Hybrid, Edge)

#### **Lesson 10:** Webex Initial Configurations

- Verify Domain
- Claim Domain
- Configure Users Manually and using Directory Connector

#### **Lab:** *Configuring Initial Webex Settings*

- Domain Verification
- Setup Directory Connector
- Login to Webex app

#### **Lesson 11:** Webex Hybrid Services

- Hybrid Calling
- Hybrid Calendar
- Hybrid Security Node

#### **Lab:** *Configure Hybrid connectors*

#### **Lesson 12:** Webex Edge Solutions

- Webex Edge Connect
- Webex Edge Calling
- Webex Edge Video Mesh

#### **Lab:** *Configure Webex Edge*

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