
Webex Macros, APIs and Programmability for Webex Devices, Control Hub and Meetings (WBXMAP) V1.0

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***

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How you will benefit

This class will help you:

- This class will help students bridge the gap between CLI/GUI and API
- Students will get introduced to API Technologies and will start them on their Journey to API Engineering

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Network Administrator
- Meeting Administrators
- Webex Administrators
- Collaboration Administrators
- Network Engineer
- Voice / UC / Collaboration / Communications Engineers
- Collaboration Sales / Systems Engineers

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Objectives

During this course, students will learn:

- Technologies used in Webex APIs
- Where to find and use Webex API Documentation
- To use Programming Technologies with Webex
- Fundamentals of Bots, Integrations, Widgets, and WebApps
- How API Tokens are authenticated in Webex
- Fundamentals of Python and JavaScript
- Fundamentals of API Integrations with other Apps
- Fundamentals of Device Macros
- The Schedule, Manage, Integrate Webex Meetings

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Course Outline

Module 0: Introduction

- Module Topics
- Lesson 1: Introduction
- Lesson 2: SIP Trunking
- Module Summary

Module 1: Webex API Overview

- Module Topics
- Lesson 1: Webex API Overview
- Lesson 2: Webex API Documentation
- Lesson 3: API Technologies Overview
- Lesson 4: Webex API Types
- Lesson 5: Webex Software Developer Kits (SDK)
- Lesson 6: API Use Cases
- Lesson 7: Setting up a Programming Environment
- Module Summary

Module 2: Webex Room Systems, Device, and Clients (Review)

- Module Topics
- Lesson 1: Webex Portfolio and Features
- Lesson 2: Webex Room Navigator
- Lesson 3: Webex Devices
- Lesson 4: Webex Board Pro
- Lesson 5: SX / DX Devices
- Lesson 6: Webex Room OS 11

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Course Outline

Cont. Module 2

- Lesson 7: Webex Device States
- Lesson 8: Webex Calling Devices
- Lesson 9: Webex App
- Lesson 10: Webex Mobile Clients
- Module Summary

Module 3: Webex Control Hub

- Module Topics
- Lesson 1: Control Hub Overview
- Lesson 2: Organization Settings
- Lesson 3: Adding Users
- Lesson 4: Adding Devices
- Lesson 5: Adding Workspaces
- Lesson 6: Administration Panels
- Lesson 7: User Portal
- Module Summary

Module 4: Program Fundamentals

- Module Topics
- Lesson 1: Language and Format Overview
- Lesson 2: Data Formats
- Lesson 3: Python Fundamentals
- Lesson 4: Java Script Fundamentals
- Module Summary

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Course Outline

Module 5: Webex Authentication

- Module Topics
- Lesson 1: Authentication Overview
- Lesson 2: OAuth Authentication
- Module Summary

Module 6: Webex Rest APIs and JSON

- Module Topics
- Lesson 1: REST API
- Lesson 2: JavaScript Object Notation (JSON)
- Lesson 3: HTTP (REST) Status Codes
- Module Summary

Module 7: Webex Bots, Cards, and Integrations

- Module Topics
- Lesson 1: Webex Bots
- Lesson 2: Webex Buttons and Cards
- Lesson 3: Integrations
- Lesson 4: Webex Widgets
- Module Summary

Module 8: Postman

- Module Topics
- Lesson 1: Postman Overview
- Lesson 2: Webex Collections
- Lesson 3: Testing Webex APIs with Postman
- Module Summary

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Course Outline

Module 9: Webex Customization, UI Extensions and, Macros for Devices

- Module Topics
- Lesson 1: RoomOS Programmability Overview
- Lesson 2: RoomOS Website for Device Customization
- Lesson 3: RoomOS Connectivity / User Overview
- Lesson 4: Device Configuration
- Lesson 5: Personalization – Branding
- Lesson 6: UI Extensions
- Lesson 7: Device Macros
- Lesson 8: Device API Commands
- Module Summary

Module 10: Webex Digital Signage

- Module Topics
- Lesson 1: Webex Digital Signage
- Lesson 2: Digital Signage Configuration using Cisco Webex Control Hub
- Lesson 3: Digital Signage Configuration using Local Web Administration Portal
- Lesson 4: APPSPACE
- Module Summary

Module 11: Driving Webex Meetings with APIs.

- Module Topics
- Lesson 1: Webex Meeting APIs
- Lesson 2: Controlling Meeting using APIs
- Lesson 3: Scheduling Meetings with APIs
- Module Summary

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Lab Outline

Lab 1: Initial Cisco Webex Control Hub Organization Configuration

Lab 2: Webex Developer Documentation

Lab 3: Cisco Devnet Site

Lab 4: Cisco RoomOS Developer Site

Lab 5: Explore xAPI Reference Guide

Lab 6: Python Fundamentals

Lab 7: JavaScript Fundamentals

Lab 8: Oauth Workflow

Lab 9: Configure a Webex Integration

Lab 10: Building a Webex Weather Bot

Lab 11: Manage Users and Meetings

Lab 12: xAPI for Cisco collaboration devices

Lab 13: Macros for RoomOS Devices

Lab 14: Using Macros to Control Lighting