Current Technologies Computer Learning Centers

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Platinum Learning

Installing, Configuring, and B05-9D9CD112D52B" 1,0,0,1,0.000796 Troubleshooting Cisco Webex/Collaboration Endpoints (CISCO ENDPOINTS) WHERE GREAT TRAINING HAPPENS EVERYDAY!

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WHERE GREAT TRAINING HAPPENS EVERYDAY!

Installing, Configuring, and Troubleshooting Cisco Webex/Collaboration Endpoints (CISCO ENDPOINTS)

Course Duration

5 Days

Course Price

\$4,495.00 45 CLCs

Methods of Delivery

In-Person ILT Virtual ILT Onsite ILT

About this Class

The Installing, Configuring, and Troubleshooting Cisco Collaboration Endpoints (CISCO ENDPOINTS) course is a comprehensive, five-day instructor-led course that covers deploying, managing, and troubleshooting Cisco Webex devices and collaboration solutions. This training focuses on Webex endpoints, collaboration devices, room design, device configuration, integration with Microsoft Teams and other platforms, as well as network and troubleshooting essentials. Participants will gain hands-on experience configuring Webex Room Systems, Desk Devices, Cisco Board Pro, Webex Calling Devices, and various collaboration tools. Additionally, learners will explore Webex Control Hub configurations, BYOD functionalities, device APIs, digital signage, Cisco Spaces, and integrating Webex devices with Microsoft Teams, Zoom, and Google Meetings. Through a combination of theoretical lessons and extensive hands-on labs, students will develop the skills needed to design, deploy, and maintain Cisco Webex systems for hybrid work environments. This course is designed to empower participants with the knowledge and skills required to ensure seamless, efficient, and secure collaboration experiences within enterprise networks. By the end of the course, students will be able to effectively manage Webex devices and collaboration solutions, perform troubleshooting, and integrate Webex endpoints with external systems to create robust and resilient communication environments.

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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:

- Installers and Field Technicians
- Collaboration Engineers
- Network Engineers and Administrators
- IT Support Technicians and Helpdesk Staff
- Unified Communications Engineers
- System Integrators and Cisco Channel Partners
- IT Managers and Project Coordinators

Objectives

After taking this course, you should be able to:

- Webex Overview
- Cisco Collaboration Devices Overview
- Room Design and Requirements
- Cisco Endpoints, Webex Room Systems, Desk Device, and Clients
- Deploying CUCM Video Endpoints
- Managing Cisco Device Settings & Options

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Prerequisites

Before attending the "Installing, Configuring, and Troubleshooting Cisco Collaboration Endpoints" course, participants should have a foundational understanding of Cisco networking and collaboration technologies to ensure they can effectively follow and apply the course content. While there are no strict formal prerequisites, the following background knowledge is strongly recommended:

- A basic understanding of networking concepts, including IP addressing, routing, switching, and VLANs.
- Familiarity with Cisco IOS command-line interface (CLI) operations and configuration tasks.
- General knowledge of video and audio-conferencing technologies and collaboration environments.
- Prior exposure to Cisco Webex solutions or Cisco Unified Communications environments is helpful but not required.
- Experience with Microsoft Teams, especially in a video conferencing or device integration context, is beneficial for the integration sections.

These prerequisites will help ensure that learners are prepared to engage with hands-on labs and can fully benefit from the course's focus on real-world deployment, configuration, and troubleshooting scenarios.



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Course Outline

Module 0: Introduction

- Module Overview
 - Course orientation and objectives.
- Course Goals
 - Review the key learning outcomes.
- Webex Meetings Center Basics
 - Using Webex for collaboration.
- Introductions
 - Meet your instructor and peers.

Module 1: Cisco Collaboration Devices Overview

- Collaboration Overview and Challenges
 - Introduction to collaboration technologies and common challenges.
- Hybrid Work Spaces
 - Exploring hybrid work models and device needs.
- Unified Communication Overview
 - Understanding unified communications concepts.

Module 2: Room Design and Requirements

- Room Design Principles
 - Best practices for meeting room design.
- Conference Room Physical Room Layout
 - Effective room layout strategies.
- Conference Room Lighting Design
 - Optimizing lighting for video meetings.
- Conference Room Audio Design
 - Ensuring clear and consistent audio.

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Course Outline

Module 2: Room Design and Requirements

- Audio Console
 - Overview of console-based audio control.
- Audio and Video Configuration
 - Integrating audio and video systems.
- Conference Divisible Rooms Design
 - Designing flexible room layouts.

Module 3: Cisco Endpoints, Webex Devices

- Webex Portfolio and Features
 - Overview of Webex hardware and software.
- Webex Desk Mini
 - Compact personal collaboration device.
- Webex Desk
 - All-in-one desk-based video device.
- Webex Desk Pro
 - Premium desk collaboration device.
- Webex Desk Camera Series
 - High-quality external cameras for meetings.
- Webex Room Kit
 - Integrated device for meeting rooms.
- Webex Room Kit USB
 - USB-connected video solution.
- Webex Room Kit Mini
 - Compact version of Room Kit for small rooms.
- Webex Room Kit Plus
 - Scalable room solution with external codec.

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Course Outline

Cont. Module 3

- Webex Room Kit Pro
 - High-performance device for advanced rooms.
- Webex Room Bar
 - Compact video bar with built-in intelligence.
- Webex Room Bar Pro
 - Advanced version of Room Bar.
- Webex Room Codec EQ
 - Modular codec for custom room installations.
- Webex Room Kit EQX
 - High-end integrated collaboration system.
- Webex Campfire Rooms
 - Designing circular, inclusive meeting spaces.
- Room Panorama
 - Immersive telepresence experience.
- Cisco Board Pro
 - All-in-one whiteboard and video conferencing tool.
- Cisco Board Pro G2
 - Second-generation collaborative whiteboard.
- Webex Room Navigator
 - Touch controller for room devices.
- SX / DX Devices
 - Legacy series of collaboration devices.
- Webex Room OS 11
 - New Webex device operating system.
- Webex Device States
 - Device lifecycle and connection states.
- Webex Calling Devices
 - Devices used with Webex Calling platform.
- Headsets
 - Webex-compatible headset options.
- Table Mic Pro
 - Advanced tabletop microphone.
- Ceiling Mic Pro
 - Premium overhead microphone.



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Course Outline

Module 4: Physical Installation and Device Setup

- Connecting Screens and Video Outputs
 - Connecting displays and outputs.
- Manual and Automatic Screen Setup
 - Adjusting screen settings manually or automatically.
- Connecting Recorders and External Devices
 - Linking external AV hardware.
- Presenter Track Configuration
 - $_{\circ}$ Set up speaker tracking.
- Presenter and Audience Room Mode Setup

 Optimize tracking modes for presenters/audience.
- Connecting Cables and Peripherals
 - Cable management and peripheral setup.
- Testing and Troubleshooting Connections
 - Verifying and fixing connections.
- Software Installation and Updates
 - Updating device software.
- Reset Procedures for Cisco Devices
 - Restoring factory settings.

Module 5: Deploying CUCM Video Endpoints

- CUCM Video Endpoint Architecture
 - System layout for video endpoint integration.
- CUCM Endpoint Registration
 - Register endpoints to CUCM.
- Video Endpoint Settings for Cisco Unified Communications Manager Registration
 - Configuration settings for CUCM.
- Mobile and Remote Access Device Registration
 - $\,\circ\,$ Enable endpoint access over the internet.
- UCM B2B Video Endpoint Call Flows
 - $\,\circ\,$ Understand call paths for external video.
- Troubleshooting UCM B2B Video Endpoint Call Flows
 Diagnose B2B call issues.
- Cisco Unified Communications Manager Device Troubleshooting Tools
 Built-in tools for diagnosing device issues.

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Course Outline

Module 6: Managing Cisco Device Settings & Options

- Navigating the Local Device Web Interface
 - Manage settings via web UI.
- Accessing and Understanding System Information
 View and interpret device data.
- Managing Device Configurations
 Customize device configurations.
- Configuring and Optimizing Audio Settings
 Adjust sound settings.
- Setting Up Bluetooth Connectivity
 Pair devices with Bluetooth.
- Room Booking and Scheduling

 Enable room scheduling on devices.
- Enabling Bring Your Own Device (BYOD) Functionality
 Allow external device connections.
- Reviewing and Managing Call History

 Check recent call records.
- Configuring and Adjusting Camera Settings
 Set up and tune cameras.
- Customizing Conference Settings
 - Change meeting options.
- Network Configuration and Connectivity
 Manage network settings.
- Provisioning Devices for Use
 - Prepare devices for deployment.
- Configuring Standby and Scheduling Modes
 Set energy saving modes.
- Managing Time and Date Settings
 Set and sync time/date.
- User Management and Access Control
 Manage logins and permissions.
- Video Input Configuration

 Select and manage video sources.
- Exploring the Status Page
 - Use the status page for monitoring.
- Audio and Video Status
 - Check media functionality status.
- Managing Software Updates and Versions
 Keep software current.



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Course Outline Module 7: Network Planning, Network Assessment, and Security

- Device Network Requirements

 Network prerequisites for endpoint connectivity.
- Network Infrastructure for Device Registration
 - Key infrastructure for successful registration.
- Preparing Network Infrastructure
 - Keep software current.
- Network Assessment
 - Assess network readiness for video.
- Switch Configuration for Video Devices
 - Webex Calling Ports and Protocols
- Webex Calling Ports and Protocols
 - Required ports and protocols for calling.
- Diagnosing Switch Issues
 - Troubleshoot switch-level problems.
- WIFI Troubleshooting
 - Resolve wireless connectivity issues.

Module 8: Webex Device Registrations

- Adding a Personal Collaboration Phone
 - Steps to register a personal device.
- Adding a Personal Collaboration Device
 - Add other personal devices for users.
- Common Area Phones
 - Set up for shared/public use phones.
- Deploying a Shared Collaboration Device
- Set up communal devices in workspaces.
- Device Templates and Backups
 - $_{\circ}$ Use templates and backups for provisioning.
- Webex Device Registration
 - Register devices to the Webex cloud.
- Device Navigation
 - Access and manage device menus.
- Webex Device States
 - Understand device readiness statuses.

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Course Outline

Module 9: Device and Meeting Features

- Webex Workspace Overview
 - Overview of smart workspaces.
- Workspaces Room Peripherals
 - Peripheral devices for rooms.
- Device / Workspace Features
 - Features that enhance collaboration.
- Navigator Features
 - Functions of Webex Room Navigator.
- Companion Mode
 - Pairing two devices for one meeting.
- Creating Workspaces
 - Define rooms and devices in Control Hub.
- Managing Workspaces
 - Update workspace settings.
- Hotdesking
 - Enable flexible seating with Webex devices.
- Presenter & Audience
 - Set up intelligent video framing.
- Cinematic Views
 - Automate camera control and framing.
- People Focus
 - Focus camera on each individual.
- Webex Meeting Frames
 - Manage participant layout frames.
- Webex Meeting Cross-View
 - Enable view for both speaker and group.
- Multi-Camera Speaker View
 - Use multiple cameras in a single meeting.
- Meeting Zone
 - Define zones for speaker tracking.
- Speaker Track
 - To-focus on active speaker.
- Multiples Speaker Track Cameras in one Room
 - Combine Speaker Track for large spaces.

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Course Outline

Module 10: Webex App Overview

- Download Webex App
 - Get the app from official sources.
- Install and Login to Webex App for Windows
 - Install and sign into the app.
- Test Connectivity and Bandwidth to Webex
 - Check internet speed and app readiness.
- Configuring Webex App Settings
 - Modify app preferences.
- Using Webex Calling
 - Make and receive calls.
- Webex Calling Voicemail
 - Manage voicemail via Webex.
- Using Webex Messaging
 - Send messages and create spaces.
- Space Sections
 - Organize messages by topic.
- Webex App Spaces
 - Collaborative messaging environments.
- Team Spaces
 - Group-oriented messaging and calls.
- Webex Meetings
 - Schedule and host video meetings.
- Joining a Meeting
 - Steps to join scheduled sessions.
- Schedule a Meeting
 - Create new meeting invites.
- Webex In-Meetings Features
 - Use meeting tools like chat and share.
- Ai Features
 - Leverage AI for notes and summaries.



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Course Outline

Module 11: Webex User Hub

- Webex User Hub
 - Centralized settings and access control.
- Settings
 - Modify user preferences.
- Calendar
 - $_{\circ}$ View scheduled events and meetings.
- Webinar
 - Manage webinar setup and participation.
- Recordings
 - Access recorded sessions.

Module 12: Microsoft/ Google / Zoom Integration

- Webex Devices Microsoft Integration Overview
 Oregrate Webex with Microsoft services.
- Video Integration with Microsoft Teams (VIMT)Configuring Webex Devices for
 Integration
 - Configure Teams meetings on Webex.
- Direct Guest Join (WebRTC)
 - Join meetings without native registration.
- Cisco Devices for Microsoft Teams Rooms
 - $_{\circ}$ Deploy Cisco devices with MTR mode.
- MTR Supported Features
 - Review MTR feature compatibility.
- Microsoft 365 Admin Center Provision
 - Provision via Microsoft Admin Center.
- Microsoft Teams Room Onboarding
 - Steps to register Teams Rooms.
- Microsoft Entra and Intune
 - $_{\circ}$ Enable device management and access control.
- Joining a Zoom Meeting
 - $_{\circ}$ Join Zoom from Webex devices.
- Joining a Google Meeting
 - ${\scriptstyle \circ}$ Join Google Meet from Webex devices.

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Course Outline

Module 13: Webex APIs, Integrations, and Macros

- Device Automation Overview
 - Automate device interactions.
- Device APIs
 - Use APIs for device control.
- Device Integrations
 - Third-party system integration.
- Device Programmability Overview
 - Programming options for customization.
- Device Macros and UI Extension
 - Add macros to automate responses.
- User Interface (UI) Extension
 - Customize device UI elements.
- MTR Programmability and Device xAPI
 - Control MTR with APIs.
- Device Macro and Configuration Deployment Options
 - Distribute macros to devices.
- Device Macro and UI Extension Control Hub Configuration
 - Manage macros through Control Hub.
- Device Backups
 - Save and restore configuration.
- CE-Deploy
 - Bulk deploy device settings.
- WebView Web-Sockets
 - Enable advanced web integrations.
- Kiosk Web Apps
 - Turn Webex device into kiosks.

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Course Outline Module 14: Cisco Spaces

- Cisco Spaces Overview
 - Workspace insights platform.
- Cisco Smart Workspaces
 - Data-driven workspace configuration.
- Cisco Spaces Control Hub Activation
 - Activate via Control Hub.
- Cisco Spaces Initial Configuration
 - Basic settings to get started.
- Control Hub Configuration
 - Detailed platform setup.
- Enable CH Workspace for Smart Workspaces
 - Activate Smart Workspaces feature.
- Enable Cisco Spaces on the Navigator
 - Allow Navigator access to Spaces.
- Add Rich Maps to Cisco Spaces
 - Enhance layouts with maps.
- Spaces Manager
 - Central admin for space usage.
- Cisco Spaces Digital Signage
 - Deliver signage using Spaces.
- Digital Signage Views on the Device
 - Set visual display profiles.

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Course Outline Module 15: Digital Signage

- Webex Digital Signage
 - Use Webex to show digital content.
- Digital Signage Configuration using Cisco Webex Control Hub
 Steps to configure signage.
- Appspace
 - Integration with signage content platform.

Module 16: Device Troubleshooting

- Troubleshooting Methodology
 - Steps for systematic troubleshooting.
- OSI Model Troubleshooting
 - Troubleshoot based on OSI layers.
- Understanding SIP Protocol
 - Basics of SIP for call flow analysis.
- Network Switch Issues
 - Identify and resolve switch-level problems.
- Troubleshooting Device Registration
 - Address failed device registrations.
- Troubleshooting Media Quality
 - Resolve media stream quality issues.
- Utilizing TAC
 - Open and manage Cisco TAC cases.
- Traffic Flow Examples
 - Understand media paths via examples.
- Thousand Eyes
 - Use cloud visibility for diagnostics.

Module 17: Webex IP Phone Basics

- IP-Phone Setup Overview
 - Basic configuration of Cisco IP phones.

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Lab Outline

- Lab 0: Establishing Your Lab Connection
- Lab 1: Getting Started with Workstation 1
- Lab 2: Laying the Foundation with Network Prerequisites
- Lab 3: Webex Control Hub Configurations
- Lab 4: Hybrid Calendar and VIMT Setup
- Lab 5: Designing & Optimizing Collaborative Workspaces
- Lab 6: Seamlessly Registering Cisco Devices
- Lab 7: Cloud Device Configuration Management
- Lab 8: Taking Control with Local Device Settings
- Lab 9: Elevating Meetings with Cinematic Features
- Lab 10: Managing Physical Device Controls
- Lab 11: Using the Webex User Hub
- Lab 12: Automating with Macros, APIs, and Integrations
- Lab 13: Deploying Digital Signage
- Lab 14: Webex App Client Features (Optional)
- Lab 15: Cisco Smart Workspaces Lab Overview
- Lab 16 Webex Device Thousand Eyes Integration
- Lab 17 Cisco Spaces PART 2

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