
Deploying and Administering Cisco Spaces (CISCO-SPACES)

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HAPPENS EVERYDAY!***

Deploying and Administering Cisco Spaces (CISCO-SPACES)

Course Duration

5 Days

Course Price

\$4,495.00
TBA CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

This 5-day, hands-on course provides a practical, end-to-end understanding of Cisco Spaces for administrators, wireless engineers, collaboration engineers, smart building teams, and technical decision makers. The course teaches students how Cisco Spaces turns Cisco infrastructure into a smart spaces platform by using wireless networks, collaboration devices, sensors, maps, location metadata, telemetry, analytics, and partner integrations.

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How you will benefit

This class will help you:

- Understand Cisco Spaces architecture and capabilities
- Plan and design Cisco Spaces deployments
- Deploy and integrate Cisco Spaces
- Implement indoor location and asset tracking using Wi-Fi, BLE, FTM, UWB, maps, tags, and location services.
- Use occupancy and environmental analytics to understand space utilization, density, workplace patterns, and environmental conditions.
- Deploy Smart Workspaces, Space Manager, and Space Experiences to manage rooms, desks, maps, digital signage, indoor navigation, and wayfinding.
- Configure smart desking and room booking, including calendar integrations, Room Navigator workflows, Microsoft Teams Rooms, and customized experiences.
- Integrate smart rooms and building systems using gateways, sensors, BACnet, equipment mapping, and energy and sustainability capabilities.
- Implement guest and visitor experiences
- Integrate Cisco Spaces with enterprise applications
- Understand Commercial and FedRAMP deployment differences
- Monitor and troubleshoot Cisco Spaces deployments

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

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Objectives

- Cisco Spaces Fundamentals
- Smart Spaces Planning, Licensing, ROI, and Design
- Wireless Design for Cisco Spaces
- Spaces OS Foundation
- Maps and Validation
- Indoor Location
- IOT and Sensors
- Asset Tracking
- Occupancy and Analytics
- Smart Workspaces Integration
- Space Manager
- Space Experiences
- Smart Desking and Room Booking
- Smart Rooms and BMS
- Guest Access, Captive Portals, Open Roaming, and Offload
- Personas, Contextual Engagements, Retail Analytics, and Webex Connect
- Commercial vs FedRAMP
- Operations and Troubleshooting

Prerequisites

The following background knowledge and preparation are strongly recommended:

- Working knowledge of enterprise wired and wireless networking concepts.
- Familiarity with Cisco Catalyst Wireless or Cisco Meraki Wireless Administration is recommended.
- Basic familiarity with Cisco Collaboration Control Hub and Webex collaboration devices is helpful.
- Comfort using browser-based administration portals, VPN access, and multi-factor authentication for remote lab work.

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Who Should Attend

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

- Wireless Network Administrators & Engineers
- Collaboration Administrators & Engineers
- Cisco Spaces Administrators
- Network Administrators & Engineers
- Smart Building / IoT / OT Support Teams
- Facilities and Workplace Technology Teams
- Retail, Venue, Healthcare, Education, Manufacturing, and Hospitality Technology Teams
- Helpdesk and NOC Support Teams
- Deployment Partners and Contractors
- IT Managers responsible for workplace technology or smart building projects

Course Outline

Module 1: Cisco Spaces Fundamentals

- Lesson 1: Cisco Spaces Fundamentals
- Lesson 2: Platform Architecture
- Lesson 3: Spaces OS
- Lesson 4: Network as a Sensor
- Lesson 5: Applications and Product Tour
- Lesson 6: Platform Value and IT Ownership
- Lesson 7: Industry Outcomes
- Lesson 8: Future-Ready Smart Buildings

Module 2: Smart Spaces Planning, Licensing, ROI, and Design

- Lesson 1: Planning Cisco Spaces
- Lesson 2: Understanding Packages
- Lesson 3: ROI, Business Case, and Economic Justification

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Course Outline

Cont. Module 2

- Lesson 4: Design and Deployment Planning
- Lesson 5: Evaluation, Trial, and Proof-of-Value Planning
- Lesson 6: Find My License Workflow

Module 3: Wireless Design for Cisco Spaces

- Lesson 1: Connectivity Design vs. Location Design
- Lesson 2: AP Density
- Lesson 3: AP Placement
- Lesson 4: Catalyst AP Capability Matrix
- Lesson 5: Triangulation
- Lesson 6: BLE
- Lesson 7: UWB
- Lesson 8: Validation Best Practices

Module 4: Spaces OS Foundation

- Lesson 1: Spaces OS Architecture
- Lesson 2: Tenant Preparation
- Lesson 3: On-Premise Networking
- Lesson 4: Wireless Onboarding
- Lesson 5: Catalyst Integration
- Lesson 6: Meraki Integration
- Lesson 7: Cisco Spaces Connector
- Lesson 8: Cisco Collaboration Control Hub Integration

Module 5: Maps and Validation

- Lesson 1: Map Types
- Lesson 2: Location Hierarchy

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Course Outline

Cont. Module 5

- Lesson 3: Network Maps
- Lesson 4: Digital Maps
- Lesson 5: AP Auto Location
- Lesson 6: Navigation Architecture
- Lesson 7: Workspace Maps

Module 6: Indoor Location

- Lesson 1: Location Architecture
- Lesson 2: Location Math
- Lesson 3: Wi-Fi Location
- Lesson 4: BLE Location
- Lesson 5: FTM and UWB
- Lesson 6: CMX Location Engines
- Lesson 7: Detect & Locate
- Lesson 8: Accuracy Testing
- Lesson 9: Location Troubleshooting

Module 7: IOT and Sensors

- Lesson 1: IOT Architecture
- Lesson 2: Catalyst IOT Activation
- Lesson 3: Device Compatibility
- Lesson 4: Meraki MT Telemetry
- Lesson 5: Partner Sensors
- Lesson 6: Sensor Health
- Lesson 7: Meraki MT Lifecycle
- Lesson 8: Sensor Placement
- Lesson 9: IOT Troubleshooting

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Module 8: Asset Tracking

- Lesson 1: Asset Tracking Architecture
- Lesson 2: Wi-Fi, BLE, and UWB
- Lesson 3: Design and Infrastructure
- Lesson 4: IoT Services and Tags
- Lesson 5: Asset Locator and Inventory
- Lesson 6: UWB Mobile Finding
- Lesson 7: Rules, Reporting, and Support

Module 9: Occupancy and Analytics

- Lesson 1: Occupancy Architecture, and Outcomes
- Lesson 2: Occupancy Sources
- Lesson 3: Wi-Fi People Counting and Deduplication
- Lesson 4: Live Occupancy and Density Analytics
- Lesson 5: Location Analytics and Behavior Metrics
- Lesson 6: Space Utilization and Work Pattern
- Lesson 7: Environmental Analytics
- Lesson 8: Portal Beam Deployment
- Lesson 9: PIR Sensor Deployment
- Lesson 10: Calculation Models, Dashboards, and Reports
- Lesson 11: Operations, Validation, and Troubleshooting

Module 10: Smart Workspaces Integration

- Lesson 1: Smart Workspaces Architecture
- Lesson 2: Collaboration Device Readiness
- Lesson 3: Smart Rooms and Device Context

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Module 11: Space Manager

- Lesson 1: Space Manager Architecture
- Lesson 2: Space Data Model and Map Readiness
- Lesson 3: Manage Rooms
- Lesson 4: Manage Desks
- Lesson 5: Device and Sensor Associations
- Lesson 6: Bulk Administration
- Lesson 7: Troubleshooting Space Manager

Module 12: Space Experiences

- Lesson 1: Display Publishing
- Lesson 2: Digital Signage
- Lesson 3: Display Endpoint and Browser Readiness
- Lesson 4: Experience Design and Governance
- Lesson 5: Space Explorer Web App and Discovery
- Lesson 6: Indoor Navigation Readiness
- Lesson 7: Wayfinding Routes
- Lesson 8: QR Handoff and Blue-Dot Guidance
- Lesson 9: Walk Testing and Troubleshooting

Module 13: Smart Desking and Room Booking

- Lesson 1: Booking Architecture
- Lesson 2: Licensing and Readiness
- Lesson 3: Desk Modeling
- Lesson 4: Desk Booking and Check-In
- Lesson 5: Room Booking
- Lesson 6: Calendar Integration
- Lesson 7: Room Navigator Workflows

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Cont. Module 13

- Lesson 8: Microsoft Teams Rooms
- Lesson 9: Customization and Macros
- Lesson 10: Validation and Troubleshooting

Module 14: Smart Rooms and BMS

- Lesson 1: Smart Rooms Architecture
- Lesson 2: Readiness and Survey
- Lesson 3: Gateway Onboarding
- Lesson 4: Network and OT Security
- Lesson 5: BACnet Integration
- Lesson 6: Equipment Mapping
- Lesson 7: Energy and Sustainability
- Lesson 8: Operations and Failback

Module 15: Guest Access, Captive Portals, Open Roaming, and Offload

- Lesson 1: Captive Portal Basics
- Lesson 2: Network Readiness
- Lesson 3: Portal Publishing
- Lesson 4: Authentication Design
- Lesson 5: SSID and Redirect
- Lesson 6: Catalyst Wireless Infrastructure Configuration
- Lesson 7: Portal Rules
- Lesson 8: Trusted Devices
- Lesson 9: Open Roaming Foundations
- Lesson 10: Open Roaming Profiles and Policy
- Lesson 11: Hotspot Connector and Meraki RADSEC
- Lesson 12: Carrier Offload
- Lesson 13: Onboarding SDK
- Lesson 14: Operations and Validation

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Module 16: Personas, Contextual Engagements, Retail Analytics, and Webex Connect

- Lesson 1: Retail Outcomes and the Connected Store
- Lesson 2: Personas, Identity, Consent, and Context
- Lesson 3: Cisco Spaces Retail Analytics
- Lesson 4: Acquisition and Onboarding Sources
- Lesson 5: Webex Connect Architecture
- Lesson 6: Cisco Spaces and Webex Connect
- Lesson 7: Measurement, Optimization, and Business Operations
- Lesson 8: Security, Privacy, Reliability, and Troubleshooting

Module 17: xAPIS and Integrations

- Lesson 1: Developer Access
- Lesson 2: Data Export
- Lesson 3: Streaming API
- Lesson 4: Meta API Events
- Lesson 5: Firehose and Partners
- Lesson 6: Detect & Locate APIs
- Lesson 7: Connector APIs
- Lesson 8: CMX APIs
- Lesson 9: AI Maps SDK
- Lesson 10: Wayfinding SDK
- Lesson 11: Enterprise Integrations
- Lesson 12: API Troubleshooting

Module 18: Commercial vs FedRAMP

- Lesson 1: Security Boundary and Access
- Lesson 2: Licensing and Application Availability

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Course Outline

Cont. Module 18

- Lesson 3: Integration and Deployment Restrictions
- Lesson 4: Operational Delta and Acceptance

Module 19: Operations and Troubleshooting

- Lesson 1: Troubleshooting and Evidence
- Lesson 2: Connector and Data Path Health
- Lesson 3: Integrations and Location Context
- Lesson 4: Applications and Analytics
- Lesson 5: Administration and Change Control
- Lesson 6: Escalation and Handoff