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Computer Learning Centers

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Meraki Wireless, Ready For The Enterprise! (MER-WLS)

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6210 Central Ave, Portage IN

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Meraki Wireless, Ready for the Enterprise (MER-WLS)

Course Duration

4 Days

Course Price

$3,895.00
36 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

Certification Exam

350-401

Cisco CE Credits

30

About this Class

This 4-day Cisco course provides students with the skills to configure, optimize, and troubleshoot a Cisco Meraki solution. Students will learn how to install and optimize Meraki MR Access Points. Students will also learn how to configure the Meraki Dashboard, troubleshoot and configure the Meraki environment and learn how to diagnose and resolve user and Network issues that may arise.

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How you will benefit

This class will help you:

- Deploy and optimize Meraki MR/CW Access Points
- Survey, Optimize and Configure Wireless Networks, Manage AP Firmware, Create Heatmaps, Wireless Templates, SSIDs, Wireless Security, Wireless RF Settings, and Channel Management
- Monitor and Troubleshoot Wireless APs, Wireless Clients, Capture and Troubleshoot Wireless Flows, Troubleshoot Wireless Health using AI Optimized Troubleshooting, Network Service Health to troubleshoot Network Issues such as Radius, Cisco ISE, DNS, and DHCP
- Configure the Meraki APIs, Integrations, and Meraki Integration with Cisco Spaces

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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Who Should Attend

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

- IT Staff and Managers
- Network and Systems Personnel and Engineers
- Small to mid-sized organizations that require fundamental knowledge on networking terms/concepts and configuration guidance for Meraki equipment.
- This also includes organizations looking to implement remote sites, provide a guest wireless solution, and collect user analytics.

Objectives

After taking this course, you should be able to:

- Navigate and Configure the Organization settings, Wireless Networks
- Learn AP Models, Antennas, and Placement using Site Surveys
- Design a Meraki Wireless Network using Meraki best practices
- Perform Site Surveys with Cisco Meraki CW/MR APs
- Manage AP Firmware Upgrades
- Configure Network Switches for Meraki Wireless Networks
- Learn to optimize Radio Settings, Channel Management, and Roaming Settings
- Configure SSIDs and Security Settings
- Manage/Configure/Integrate Users and Radius Policies
- Configure Floorplans and Heat-maps
- Monitor and Troubleshoot Wireless Clients
- Monitor and Troubleshoot Wireless APs
- Use Meraki Health to troubleshoot and optimize Meraki Wireless Networks use AI-OPS
- Use Network Service Health to troubleshoot Network Issues such as Radius, Cisco ISE, DNS, and DHCP

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Course Outline

Module 0: Meraki Wireless, Ready for the Enterprise

- Lesson 1: Introduction

Module 1: Introduction to Meraki

- Lesson 1: Why Cisco Meraki?
- Lesson 2: Meraki Product Overview
- Lesson 3: Meraki Licensing and Support Overview

Module 2: Meraki Wireless APs and Mounts

- Lesson 1: Meraki AP Features
- Lesson 2: Meraki WIFI 5 Indoor AP Models
- Lesson 3: Meraki WIFI 6 Indoor AP Models
- Lesson 4: Meraki Wi-Fi 6E Indoor Portfolio
- Lesson 5: Meraki Outdoor WIFI 5 AP Models
- Lesson 6: Meraki Outdoor WIFI 6 AP Models
- Lesson 7: Meraki Antennas, Power, Mounts, and Accessories

Module 3: Designing Meraki Wireless Architectures

- Lesson 1: Wireless Standards
- Lesson 2: Meraki RF WLAN Design
- Lesson 3: Site Survey
- Lesson 4: Site Survey Tools
- Lesson 5: Mounting Aps Best Practices
- Lesson 6: Meraki Design Principles

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Course Outline

Cont. Module 3

- Lesson 7: Meraki Roaming Design
- Lesson 8: Switch Design for Meraki Wireless Networks
- Lesson 9: Designing Meraki Network Services
- Lesson 10: Organization and Network Design
- Lesson 11: Migrating Cisco DNA APs to Meraki Dashboard

Module 4: Configuring the Meraki Dashboard

- Lesson 1: Meraki Dashboard, Organizations, and Networks
- Lesson 2: Organizational-Wide Configure Settings
- Lesson 3: Configuring Administrators
- Lesson 4: License Info
- Lesson 5: Creating Networks & Managing Inventory
- Lesson 6: Organization > Overview Page
- Lesson 7: Configuring Network-Wide Settings
- Lesson 8: Network-Wide Administrators & Users
- Lesson 9: Network-Wide > Add Devices
- Lesson 10: Configuring Location / Mapping Devices
- Lesson 11: Configuring Meraki and Umbrella

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Course Outline

Module 5: Deploying Meraki Wireless

- Lesson 1: Configuring the Dashboard for Wireless
- Lesson 2: Managing Firmware
- Lesson 3: Configuring Templates
- Lesson 4: Group Policy
- Lesson 5: SSID Configuration with Access Control
- Lesson 6: Per SSID – Firewall & Traffic Shaping
- Lesson 7: Splash Page Configuration
- Lesson 8: Configuring SSID Availability
- Lesson 9: Configuring Bluetooth Settings
- Lesson 10: Configuring Port Profiles
- Lesson 11: Configuring Wireless Security

Module 6: Meraki Wireless RF and Channel Management

- Lesson 1: Meraki Cloud-Managed RF Design
- Lesson 2: Wireless RF Radio Settings
- Lesson 3: Wireless AIOps
- Lesson 4: Auto RF - AI-Powered RF Optimizations
- Lesson 5: RX-SOP
- Lesson 6: Roaming Analytics Dashboard
- Lesson 7: RF Spectrum

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Course Outline

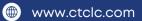### Module 7: Monitoring Meraki Wireless

- Lesson 1: Meraki Phone App & Status Page
- Lesson 2: Monitoring Administrators, Licensing, Inventory, and Firmware
- Lesson 3: Monitoring Wireless from the Organization
- Lesson 4: Configure and Monitor Alerts
- ·Lesson 5: Monitoring Network-Wide Wireless
- Lesson 6: Monitoring a Specific Wireless Client
- Lesson 7: Wireless Traffic Analytics & Topology
- Lesson 8: Packet Captures
- Lesson 9: View Wireless Events in the Event log
- Lesson 10: Viewing Floor Plans
- Lesson 11: Monitoring Specific Access Points
- Lesson 12: Access Point Wireless Health Overview
- Lesson 13: Wireless Access Points - List
- Lesson 14: Wireless Access Points - Health
- Lesson 15: Wireless Access Points – Map, Connection Log, & Timeline
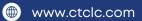- Lesson 16: Monitoring SSIDs and Bluetooth Clients

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Course Outline

Module 8: Meraki Wireless Troubleshooting

- Lesson 1: Troubleshooting Overview of Meraki Wireless
- Lesson 2: Troubleshooting Meraki Wireless Management Tunnels
- Lesson 3: Help & Support
- Lesson 4: Tools for Wireless Troubleshooting
- Lesson 5: Wireless Experience
- Lesson 6: Roaming Analytics Dashboard
- Lesson 7: Troubleshoot Wi-Fi Connection Issue
- Lesson 8: Troubleshooting Client Roaming
- Lesson 9: Troubleshooting Slow Wi-Fi
- Lesson 10: Troubleshoot AP Issues
- Lesson 11: AP Issues
- Lesson 12: Client Connection Issues
- Lesson 13: AI-Powered Root Cause Analysis
- Lesson 14: Proactive Alerts
- Lesson 15: Thousand Eyes

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Course Outline

Module 9: Meraki Wireless APIs and Integrations

- Lesson 1: Meraki API and Integration Overview
- Lesson 2: Meraki API Technologies and Tools
- Lesson 3: Meraki Dashboard API
- Lesson 4: Using Postman with Meraki
- Lesson 5: Meraki Dashboard API Python library
- Lesson 6: AsyncIO
- Lesson 7: People Count using Meraki Wireless APIs
- Lesson 8: Network as a Sensor
- Lesson 9: Pulling Statistics from Meraki Devices
- Lesson 10: Meraki Tools
- Lesson 11: Meraki Action Batches

Module 10: Cisco Spaces / Meraki Integration and Open Roaming

- Lesson 1: Cisco Spaces
- Lesson 2: Integrate Network Components
- Lesson 3: Integrate Meraki Network
- Lesson 4: Implement and Troubleshoot Smart Operations
- Lesson 5: Implement and Troubleshoot Smart Workspaces
- Lesson 6: Meraki Open Roaming
- Lesson 7: Designing Power efficient Meraki Wireless Networks

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Lab Outline

Lab 1: Initial Cisco WebEx Control Hub Organization Configuration

Lab 2: Webex Calling - Initial Setup

Lab 3: Assessing the Network Environment

Lab 4: Configure and License IP Phones and Webex App

Lab 5: Migrate IP Phone from Enterprise to MPP

Lab 6: Configure Webex Calling for Room Devices

Lab 7: Configure Control Hub for Calling

Lab 8: Configure Locations and Numbers

Lab 9: Configure Webex Calling Settings

- Service Settings
- Client Settings

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Lab Outline Cont.

Lab 10: Configure Webex Calling Phone Features

- Auto Attendant
- Call Park Extension
- Call Park Group
- Call Pickup
- Single Number Reach
- Paging Group
- Receptionist Client
- Virtual Extension
- Voicemail Group
- Announcement File

Lab 11: Webex Group Call Management

- Auto Attendant
- Call Queue
- Hunt Group
- Audio Files
- Agent Settings
- Supervisor Settings

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Lab Outline Cont.

Lab 12: Configuring Call Recording

Lab 13: Configuring Premise Based PSTN

- Deploy PSTN Gateway

- Trunk

- Route Group

- Dial Plans

- Verify Call Routing

- Zone

Lab 14: Using Analytics to Troubleshoot Webex Calls

Lab 15: Troubleshooting Webex Calling Call Flows, Authentication,

and Device Registration

Lab 16: Using APIs in Webex Calling