Current Technologies
Computer Learning Centers

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WHERE GREAT TRAINING HAPPENS EVERYDAY!

Meraki Wireless, Ready for the Enterprise v2.0 (MER-WLS)

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This four-day, instructor-led course focuses on deploying Meraki Wireless networks, emphasizing hands-on experience with the Meraki Dashboard configured. The training is designed to impart in-depth knowledge and practical skills necessary for configuring, deploying, monitoring, and troubleshooting Meraki MR and Catalyst CW Wireless Access Point solutions tailored for government network requirements. Students will learn how to perform Site Surveys with Meraki AP and become familiar with Ekahau and Hamina and their uses.

Participants will configure Meraki SSIDs and 802.1x port configurations for wireless clients using ISE and Radius, ensuring secure and efficient network access. The course curriculum covers a broad range of topics, including heatmaps, site surveys, RF management, and licensing, catering to the specific needs of government networks. Attendees will explore advanced Meraki features such as 5 Gbps throughput, automatic RF optimization for signal quality improvement and interference reduction, and identity-based firewall configurations for enhanced network security.

By the conclusion of this course, participants will be well-equipped with the necessary knowledge and skills to ensure the reliability, security, and efficiency of networks using Cisco Meraki Wireless Networks. This includes a comprehensive understanding of how to design, implement, manage, and troubleshoot these networks effectively, making them invaluable assets to their respective departments.

How you'll benefit

This class will help you:

- Equips students with essential skills for efficient Administration of Meraki Wireless networks
- Comprehensive understanding of Network Optimization and Troubleshooting

Why Attend with Current Technologies CLC

- Our Instructors are in 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 primary audience for this course is as follows:

- Network Engineers
- System Administrators
- IT Professionals
- Technical Support Staff
- Cisco Certified Professionals

Course Duration
4 days
Course Price
$3895.00 or 36 CLCs
Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

Module 1: Introduction to Meraki
- Why Cisco Meraki?
- Meraki Product Overview
- Meraki Licensing and Support Overview

Module 2: Meraki Wireless APs and Mounts
- Meraki AP Features
- Meraki WIFI 5 Indoor AP Models
- Meraki WIFI 6 Indoor AP Models
- Meraki Wi-Fi 6E Indoor Portfolio
- Meraki Outdoor WIFI 5 AP Models
- Meraki Outdoor WIFI 6 AP Models
- Meraki Antennas, Power, Mounts, and Accessories

Module 3: Designing Meraki Wireless Architectures
- Wireless Standards
- Meraki RF WLAN Design
- Site Survey
- Site Survey Tools
- Mounting Aps Best Practices
- Meraki Design Principles
- Meraki Roaming Design
- Switch Design for Meraki Wireless Networks
- Designing Meraki Network Services
- Organization and Network Design
- Migrating Cisco DNA APs to Meraki Dashboard

Module 4: Configuring the Meraki Dashboard
- Meraki Dashboard, Organizations, and Networks
- Organizational - Wide Configure Settings
- Configuring Administrators
- Creating Networks and Managing Inventory
- Organization > Overview Page
- Configuring Network - Wide Settings
- Network - Wide Administrators & Users
- Network - Wide > Add Devices
- Configuring Location / Mapping Devices
- Configuration Templates
- Configuring Group Policies

Module 5: Deploying Meraki Wireless
- Meraki Dashboard, Organizations, and Networks
- Organizational-Wide Configure Settings
- Configuring Administrators, Licensing, Network, and Devices
- Managing Firmware
- Packet Captures
- Group Policy
- Configuring Location / Mapping Devices
- Configuring Meraki and Umbrella
- Configuring Templates
- SSID Configuration
- Splash Page Configuration

- Configuring SSID Availability
- Configuring Bluetooth Settings
- Configuring Port Profiles
- Configuring Wireless Security

Module 6: Meraki Wireless RF and Channel Management
- Meraki Cloud - Managed RF Design
- Wireless RF Radio Settings
- Wireless AIOPs
- Auto RF - AI-Powered RF Optimizations
- RX-SOP
- Roaming Analytics Dashboard
- AP Neighbors - Advanced RF Spectrum Visualization
- RF Spectrum

Module 7: Monitoring Meraki Wireless
- MSP Monitoring Meraki Wireless
- Monitoring Organization - Wide Wireless
- Monitoring Network - Wide Wireless
- Monitoring a Specific Wireless Client
- Monitoring Wireless Traffic Analytics
- Topology
- View Wireless Events in the Event Log
- Capturing Wireless Packets
- Mapping Wireless Devices on a Floor Plan
- Monitoring Specific Access Points
- Access Point Wireless Health Overview
- Wireless Access Points - List
- Wireless Health

Module 8: Meraki Wireless Troubleshooting
- Troubleshooting Overview of Meraki Wireless
- Troubleshooting Meraki Wireless Management Tunnels
- Help and Support
- Tools for Wireless Troubleshooting
- Wireless Experience
- Roaming Analytics Dashboard
- Troubleshoot Wi-Fi Connection Issue
- Troubleshooting Client Roaming
- Troubleshooting Slow Wi-Fi
- Troubleshoot AP Issues
- Proactive WLAN Monitoring
- AP Issues
- Client Connection Issues
- AI - Powered Root Cause Analysis
- Thousand Eyes

Module 9: Meraki Wireless APIs and Integrations
- Meraki API and Integration Overview
- Meraki API Technologies and Tools
- Meraki Dashboard API
- Using Postman with Meraki

- Meraki Dashboard API Python Library
- AsyncIO
- People Count using Meraki Wireless APIs
- Network as a Sensor
- Use Case - Pulling Statistics from Meraki Devices
- Meraki Tools
- Meraki Action Batches

Module 10: Cisco Spaces / Meraki Integration and Open Roaming
- Cisco Spaces
- Integrate Network Components
- Integrate Meraki Network
- Implement and Troubleshoot Smart Operations
- Implement and Troubleshoot Smart Workspaces
- Meraki OpenRoaming
- Designing Power efficient Meraki Wireless Networks

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