

## Administering and Troubleshooting Meraki Full Stack (MX,MS,MR,MV,MI,SM, MT) Technologies (MER-FS-ADMIN) V1.0

**WHERE GREAT TRAINING  
HAPPENS EVERYDAY!**

## Administering and Troubleshooting Meraki Full Stack (MX,MS,MR,MV,MI,SM,MT) Technologies (MER-FS-ADMIN) V1.0

### 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 five-day instructor-led hands-on Meraki Full Stack course covers MX SDWAN/Security, Meraki MS, and Catalyst Switches, Meraki Access Points, Meraki Smart Camera, Meraki Sensors, and Meraki Systems Manager. Students learn how to deploy, manage, and secure a network infrastructure using Cisco Meraki's integrated Full Stack technologies. This extensive training program addresses the specific challenges and compliance standards administrators face, ensuring that participants can build and maintain a secure, efficient, and resilient network environment.

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 MX Security Appliances, MS and Cisco Catalyst switches, and 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 agencies or departments.

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### How you will benefit

- Deploy and Configure MV Cameras / MT Sensors, covering camera profiles, camera settings, access control, Meraki Vision functionality, and the process of exporting footage.
- Gain the skills to Diagnose and Resolve the most common user and network-related issues.
- Get a deep understanding of Deploying, Managing, and Troubleshooting the full spectrum of Meraki solutions

### 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 primary audience for this course is as follows:

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

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### Objectives

After taking this course, you should be able understand:

- Meraki MX Security and SD-WAN Appliances
- Meraki MS and Catalyst Switches
- Meraki Wireless Access Points
- Meraki MV Smart Cameras
- Meraki MT Sensors
- Meraki SM Mobile Device Management
- Practical Labs and Exercises

## Administering and Troubleshooting Meraki Full Stack (MX,MS,MR,MV,MI,SM,MT) Technologies (MER-FS-ADMIN) V1.0

### Course Outline

#### Module 0: Introductions

#### Module 1: Introduction to Meraki

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

#### Module 2: Meraki Licensing

- Lesson 1: Meraki Licensing Overview
- Lesson 2: Co-Termination Licensing Overview
- Lesson 3: Co-Term Licensing in the Dashboard
- Lesson 4: Per Device Licensing (PDL) Overview
- Lesson 5: PDL in the Dashboard
- Lesson 6: Subscription Licensing Overview
- Lesson 7: Subscription Licensing in the Dashboard

#### Module 3: Configuring the Meraki Dashboard

- Lesson 1: Security Center
- Lesson 2: Configuring Network-Wide Settings
- Lesson 3: Network-Wide Administrators & Users
- Lesson 4: Network-Wide > Add Devices
- Lesson 5: Monitoring Clients
- Lesson 6: Group Policy
- Lesson 7: Configuring Location / Mapping Devices
- Lesson 8: Configuring Templates

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### Course Outline

#### Cont. Module 3

- Lesson 9: Meraki RADIUS, ISE & Adaptive Policy Overview
- Lesson 10: Umbrella Overview
- Lesson 11: Meraki App
- Lesson 12: Meraki Dashboard, Organizations, and Networks
- Lesson 13: Help & Support
- Lesson 14: Organizational-Wide Configure Settings
- Lesson 15: Configuring Administrators
- Lesson 16: Creating Networks & Managing Inventory
- Lesson 17: Organization > Overview Page
- Lesson 18: Login Attempts
- Lesson 19: VPN Status
- Lesson 20: Manage Firmware
- Lesson 21: Summary Reports
- Lesson 22: Organization Summary

#### Module 4: Meraki MX Security Appliances

- Lesson 1: MX Models & Features
- Lesson 2: Cellular Capabilities
- Lesson 3: Local Status Page
- Lesson 4: Initial Setup using the Appliance Status Page
- Lesson 5: Addressing & VLANS
- Lesson 6: DHCP
- Lesson 7: Access Control
- Lesson 8: Splash Pages
- Lesson 9: Teleworker VPN With MX & MR
- Lesson 10: Security Introduction

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### Course Outline

#### Cont. Module 4

- Lesson 11: Firewall Configuration
- Lesson 12: Threat Protection
- Lesson 13: Content Filtering
- Lesson 14: Meraki SD-WAN with Site-to-Site VPNs
- Lesson 15: Configuring Meraki SD-WAN
- Lesson 16: Monitor Site-to-Site VPNs
- Lesson 17: Meraki SD-WAN & Traffic Shaping
- Lesson 18: Routing
- Lesson 19: Client VPN
- Lesson 20: Active Directory

#### Module 5: Meraki Switch Overview

- Lesson 1: Meraki MS Warm Spare Virtual Router Redundancy Protocol (VRRP)
- Lesson 2: Meraki Switch Open Shortest Path First (OSPF)
- Lesson 3: Meraki Switch Access Control Lists
- Lesson 4: Meraki Switch Access Policies (802.1X)
- Lesson 5: Organization-Wide Radius
- Lesson 6: Access Policy
- Lesson 7: Meraki Switch Port Profiles
- Lesson 8: Meraki Switch Port Schedules
- Lesson 9: Meraki Switch Staged Upgrades
- Lesson 10: VLAN Profiles

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### Course Outline Cont. Module 5

- Lesson 11: Meraki Switch Overview
- Lesson 12: Meraki Switching Portfolio
- Lesson 13: Catalyst Meraki 9200/9300 Switches
- Lesson 14: Basic Switch Configuration
- Lesson 15: Provisioning Switch Stacks
- Lesson 16: Meraki Switch Settings
- Lesson 17: Configuring Switch Ports
- Lesson 18: Link Aggregation
- Lesson 19: Mirroring Switch Ports
- Lesson 20: DHCP Server Status
- Lesson 21: Routing & DHCP
- Lesson 22: Meraki Switch Multicast Configuration

### Module 6: Meraki Wireless APs

- Lesson 1: Configuring SSID Availability
- Lesson 2: Configuring Bluetooth Settings
- Lesson 3: Configuring Port Profiles
- Lesson 4: Wireless RF Radio Settings
- Lesson 5: RF Spectrum
- Lesson 6: Wireless Threats & Air Marshal
- Lesson 7: Location Heatmap
- Lesson 8: PCI Report
- Lesson 9: Location Analytics
- Lesson 10: Access Point Wireless Health Overview

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### Course Outline

#### Cont. Module 6

- Lesson 11: Wi-Fi Standards & Meraki AP Features
- Lesson 12: Meraki WIFI 6 AP Models
- Lesson 13: Meraki WIFI 6E Indoor Portfolio
- Lesson 14: Meraki Antennas, Power, Mounts, & Accessories
- Lesson 15: Wireless Design
- Lesson 16: Wireless Configuration
- Lesson 17: SSID Configuration with Access Control
- Lesson 18: Per SSID - Firewall & Traffic Shaping
- Lesson 19: Splash Page Configuration

#### Module 7: Meraki Troubleshooting Overview

- Lesson 1 Troubleshooting Methodology
- Lesson 2 Meraki Help and Support
- Lesson 3 Configure and Monitor Alerts
- Lesson 4 Change Log and Event Log
- Lesson 5 Meraki Packet Captures
- Lesson 6 Client Troubleshooting
- Lesson 7 Meraki MX Troubleshooting
- Lesson 8 Meraki MX Tools Tab
- Lesson 9 Meraki MS Troubleshooting
- Lesson 10 Meraki MS Tools Tab
- Lesson 11 Meraki MR Troubleshooting
- Lesson 12 Meraki MR Tools Tab

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### Course Outline

#### Module 8: Meraki Insight

- Lesson 1: Meraki Insight Introduction
- Lesson 2: Meraki Insight Licensing
- Lesson 3: Meraki Insight Web App Health
- Lesson 4: Meraki Insight WAN Health
- Lesson 5: Meraki Insight VoIP Health
- Lesson 6: MX Thousand Eyes Integration

#### Module 9: Meraki Gateways MG

- Lesson 1: Wireless WAN Capabilities
- Lesson 2: Cellular Solutions & MG Portfolio
- Lesson 3: MG Design
- Lesson 4: MG Appliance Page
- Lesson 5: MG Settings

#### Module 10: Introduction to Meraki MV Cameras

- Lesson 1: MV Security Cameras Introduction & Features
- Lesson 2: MV Camera Models
- Lesson 3: Monitor > Cameras
- Lesson 4: Basic Camera Configuration
- Lesson 5: MV Camera Profiles
- Lesson 6: MV Camera Intelligence Training
- Lesson 7: MV Camera - Video Settings
- Lesson 8: Viewing Analytics

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### Course Outline

#### Cont. Module 10

- Lesson 9: MV Video Access
- Lesson 10: MV Export
- Lesson 11: MV Cameras APIs
- Lesson 12: Meraki MV Viewing Applications
- Lesson 13: Viewing Meraki MV Video
- Lesson 14: Meraki MV Video Wall
- Lesson 15: Meraki Vision Portal

#### Module 11: Meraki Systems Manager

- Lesson 1: Systems Manager Tags
- Lesson 2: Scopes Using Target Groups
- Lesson 3: Configuration Profiles
- Lesson 4: Sentry Using Profile Settings
- Lesson 5: App Management
- Lesson 6: Systems Manager Alerts
- Lesson 7: Why use Systems Manager?
- Lesson 8: Sentry Overview
- Lesson 9: SM Supported Devices & Licenses
- Lesson 10: Systems Manager Features
- Lesson 11: Creating an EMM Network
- Lesson 12: Organizational MDM Settings
- Lesson 13: Systems Manager (SM) Configuration
- Lesson 14: Enrolling Devices

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#### Module 12: Meraki Sensors

- Lesson 1: What is – Meraki Sensors?
- Lesson 2: MQTT (Message Queuing Transmit Telemetry) – The IOT Protocol