

## Administering and Troubleshooting Meraki Full Stack for Government

### (MX, MS, MR) Technologies v4.0 (MER-FS-ADM-GOV)

#### Administering and Troubleshooting Meraki Full Stack for Government (MX, MS, MR) Technologies v4.0 (MER-FS-ADM-GOV)

The five-day instructor-led Hands-on Meraki Full Stack MX SDWAN/Security, Meraki MS and Catalyst Switches, and Meraki Access Points for Government course equips government IT professionals with advanced knowledge and hands-on experience. The program covers deploying, managing, and securing network infrastructures using Cisco Meraki technologies, addressing government-specific challenges and compliance standards to build secure and efficient networks.

#### How you'll benefit

This class will help you:

- Learn to set up, configure, and manage MX appliances, focusing on network security and optimizing WAN performance through SD-WAN technology.
- Integrate and manage Meraki MS and Catalyst switches, emphasizing high-security protocols, QoS settings, and VLAN configurations.
- Implement network security policies aligned with government standards, including firewalls, IPS, and content filtering.

#### 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 in Government Agencies
- Technical Support Staff
- Cisco Certified Professionals

#### Prerequisites

Basic Networking Knowledge:

- Understanding of networking fundamentals, including IP addressing, routing, and switching concepts.

Experience in Government IT Environments:

- Understanding of government-specific compliance standards and IT infrastructure needs.

Hands-on Experience with Network Devices:

- Prior experience configuring and managing network devices like routers, switches, and access points.

#### Course Duration

5 days

#### Course Price

\$4,495.00 or 45 CLCs

#### Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

## **Module 1: Introduction to Meraki Government**

- Cisco Meraki for Government
- Meraki for Government Product Overview
- Meraki for Government Support Overview

## **Module 2: Meraki for Government Licensing**

- Meraki Licensing for Government Overview
- Meraki for Government Co-Termination Licensing
- Co-Termination Licensing in the Dashboard
- Subscription Licensing Overview
- Subscription Licensing in the Dashboard

## **Module 3: Configuring the Meraki Dashboard**

- Meraki Dashboard, Organizations, and Networks
- Help & Support
- Organizational-Wide Configure Settings
- Configuring Administrators
- Creating Networks & Managing Inventory
- Organization > Overview Page
- Login Attempts
- VPN Status
- Manage Firmware
- Summary Reports
- Organization Summary
- Security Center
- Configuring Network-Wide Settings
- Network-Wide Administrators & Users
- Network-Wide > Add Devices
- Monitoring Clients
- Group Policy
- Configuring Location / Mapping Devices
- Configuring Templates
- Meraki RADIUS, ISE & Adaptive Policy Overview
- Umbrella Overview

## **Module 4: Meraki MX Security Appliances**

- MX Models & Features
- Cellular Capabilities
- Local Status Page
- Initial Setup using the Appliance Status Page
- Addressing & VLANs
- DHCP
- Access Control
- Splash Pages
- Teleworker VPN With MX & MR
- Security Introduction
- Firewall Configuration
- Threat Protection
- Content Filtering
- Meraki SD-WAN with Site- to-SiteVPNs
- Configuring Meraki SD-WAN
- Monitor Site-to-Site VPNs
- Meraki SD-WAN & Traffic Shaping
- Routing
- Client VPN

- Active Directory

## **Module 5: Meraki Switch Overview**

- Meraki Switch Overview
- Meraki Switching Portfolio
- Catalyst Meraki 9200/9300 Switches
- Basic Switch Configuration
- Provisioning Switch Stacks
- Meraki Switch Settings
- Configuring Switch Ports
- Link Aggregation
- Mirroring Switch Ports
- DHCP Server Status
- Routing & DHCP
- Meraki Switch Multicast Configuration
- Meraki MS Warm Spare Virtual Router Redundancy Protocol (VRRP)
- Meraki Switch Open Shortest Path First (OSPF)
- Meraki Switch Access Control Lists
- Meraki Switch Access Policies (802.1X)
- Organization-Wide Radius
- Access Policy
- Meraki Switch Port Profiles
- Meraki Switch Port Schedules
- Meraki Switch Staged Upgrades
- VLAN Profiles

## **Module 6: Meraki Wireless APs**

- Wi-Fi Standards & Meraki AP Features
- Meraki WIFI 6 AP Models
- Meraki WIFI 6E Indoor Portfolio.
- Meraki Antennas, Power, Mounts, & Accessories
- Wireless Design
- Wireless Configuration
- SSID Configuration with Access Control
- Per SSID - Firewall & Traffic Shaping
- Splash Page Configuration
- Configuring SSID Availability
- Configuring Bluetooth Settings
- Configuring Port Profiles
- Wireless RF Radio Settings
- Roaming Analytics Dashboard
- RF Spectrum
- Wireless Threats & Air Marshal
- Location Heatmap
- PCI Report
- Location Analytics
- Access Point Wireless Health Overview

## **Module 7: Meraki Gateways MG**

- Wireless WAN Capabilities
- Cellular Solutions & MG Portfolio
- MG Design
- MG Appliance Page
- MG Settings

## **Module 8: Meraki Troubleshooting Overview**

- Troubleshooting Methodology
- Meraki Help and Support
- Configure and Monitor Alerts
- Change Log and Event Log
- Meraki Packet Captures
- Client Troubleshooting
- Meraki MX Troubleshooting
- Meraki MX Tools Tab
- Meraki MS Troubleshooting
- Meraki MS Tools Tab
- Meraki MR Troubleshooting
- Meraki MR Tools Tab