

Current Technologies

Computer Learning Centers



Meraki MX/SDWAN Security for Government v1.0 (MER-MXSDWAN-GOV)

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HAPPENS EVERYDAY!**



Meraki MX/SDWAN Security for Government v1.0 (MER-MXSDWAN-GOV)

Course Duration
5 Days

Course Price
\$4395.00
45 CLCs

Methods of Delivery
In-Person ILT
Virtual ILT
Onsite ILT

About this Class

This five-day, instructor-led, hands-on course on the Meraki MX SDWAN/Security for Government course offers comprehensive training on deploying, managing, and troubleshooting the Cisco Meraki MX security and SD-WAN solutions in government environments. This course is designed to equip participants with the knowledge and skills necessary to leverage these solutions for enhancing network security, improving operational efficiency, and ensuring compliance with government standards for data protection and privacy. Through theoretical learning and practical exercises, attendees will gain hands-on experience configuring advanced security features, optimizing traffic flow across wide-area networks, and utilizing cloud management capabilities to monitor and control network devices remotely. By the end of the course, participants will be well-prepared to implement and manage Cisco Meraki MX solutions effectively within government agencies or departments, ensuring a secure, resilient, and high-performance network infrastructure.

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. This includes a comprehensive understanding of how to design, implement, manage, and troubleshoot these networks effectively, making them invaluable assets to their respective government agencies or departments.

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How you will benefit

This class will help you:

- Understanding Meraki MX Licensing
- Learn how to Implement SD-WAN and Traffic Shaping on Government Networks

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

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

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Objectives

After taking this course, you should be able to:

- Dashboard Navigation and Configuration for Government
- Understanding Meraki MX Licensing
- Organizational and Network Settings Configuration on Government Networks
- Utilization of Templates and Group Policies
- MX Networks and Devices Management on Government Networks
- MX Interfaces, Addressing, and VLAN Configuration
- VPN and Firewall Configuration Across MX Networks
- Implementing SD-WAN and Traffic Shaping on Government Networks
- Site-to-site and Remote Access VPNs on Government Networks
- Access Control, Content Filtering, and Threat Protection
- User Management with Active Directory, ISE, and Radius on Government Networks
- MX Security Appliance Monitoring and Troubleshooting
- Client, Device, and Connectivity Monitoring and Troubleshooting

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Course Outline

Module 0: Introductions

Module 1: Introduction to Meraki For Government

- Lesson Topics
- Lesson 1: Cisco Meraki For Government
- Lesson 2: Meraki For Government Product Overview
- Lesson 3: Meraki For Government Support Overview
- Lesson Summary

Module 2: Meraki for Government Licensing

- Lesson Topics
- Lesson 1: Meraki For Government Licensing
- Lesson 2: Co-Termination Licensing Overview
- Lesson 3: Co-Termination Licensing In The Dashboard
- Lesson 4: Subscription Licensing Overview
- Lesson 5: Subscription Licensing In The Dashboard
- Lesson Summary

Module 3: Meraki for Government MX Security Appliances

- Lesson Topics
- Lesson 1: MX Models & Features
- Lesson 2: MG - Meraki Cellular Gateway
- Lesson 3: Local Status Page
- Lesson Summary

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Course Outline

Module 4: Configuring the Meraki Dashboard for Government

- Lesson Topics
- Lesson 1: Meraki Dashboard, Organizations, and Networks
- Lesson 2: Organizational - Wide Configure Settings
- Lesson 3: Configuring Administrators
- Lesson 4: Creating Networks and Managing Inventory
- Lesson 5: Organization > Overview Page
- Lesson 6: Manage MX Firmware
- Lesson 7: Configuring Network - Wide Settings
- Lesson 8: Network - Wide Administrators and Users
- Lesson 9: Network - Wide > Add Devices
- Lesson 10: Group Policy
- Lesson 11: Configuring Location / Mapping Devices
- Lesson 12: Configuring Templates
- Lesson Summary

Module 5: MX Configuration for Government Networks

- Lesson Topics
- Lesson 1: Initial Setup Using The Appliance Status Page
- Lesson 2: Addressing and VLANs
- Lesson 3: Dynamic Host Configuration Protocol (DHCP)
- Lesson Summary

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Course Outline

Module 6: MX Security for Government Networks

- Lesson Topics
- Lesson 1: Security Introduction
- Lesson 2: Firewall Configuration
- Lesson 3: Threat Protection
- Lesson 4: Content Filtering
- Lesson Summary

Module 7: Meraki Switch RADIUS, ISE, AD & Adaptive Policy For Government Networks

- Lesson Topics
- Lesson 1: Cisco Identity Services Engine (ISE)
- Lesson 2: ISE With Meraki
- Lesson 3: ISE Integration With Meraki Switches
- Lesson 4: Cisco TrustSec (Software-Defined Segmentation)
- Lesson 5: Meraki Adaptive Policy
- Lesson 6: ISE Meraki Connector
- Lesson 7: Active Directory Users with Meraki Group Policies
- Lesson Summary

Module 8: Configuring Meraki MX SD-WAN For Government Networks

- Lesson Topics
- Lesson 1: What Is Meraki SD-WAN?
- Lesson 2: SD-WAN Concepts
- Lesson 3: Designing SD-WAN Networks
- Lesson 4: Direct Internet Access
- Lesson 5: Configuring Meraki SD-WAN
- Lesson 6: Monitor Site-To-Site VPNs
- Lesson 7: Meraki SD-WAN & Traffic Shaping

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Course Outline

Cont. Module 8

- Lesson 8: Data Center Redundancy
- Lesson 9: Routing
- Lesson 10: Meraki & Catalyst SD-WAN
- Lesson Summary

Module 9: Configuring MX Umbrella for Government

- Lesson Topics
- Lesson 1: Meraki Integration With Umbrella For Government
- Lesson 2: Enabling Umbrella For Government (From The Umbrella Dashboard)
- Lesson 3: Enabling Umbrella For Government (From The Meraki Dashboard)
- Lesson 4: Creating An Umbrella Policy For Government (From The Umbrella Dashboard)
- Lesson 5: Applying Umbrella For Government Policies
- Lesson Summary

Module 10: Configuring MX Client VPNs for Government

- Lesson Topics
- Lesson 1: L2TP Client VPN Configuration
- Lesson 2: Cisco AnyConnect VPN Configuration
- Lesson Summary

Module 11: Configuring Meraki IPv6 For Government

- Lesson Topics
- Lesson 1: Meraki IPv6 Overview
- Lesson 2: IPv6 Design & Deployment
- Lesson 3: Meraki MX IPv6 Configuration
- Lesson 4: MX IPv6 Addressing

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Course Outline

Cont. Module 11

- Lesson 5: IPv6 Concentrator Mode
- Lesson 6: IPv6 Security
- Lesson 7: Monitoring And Troubleshooting Meraki IPv6 Networks
- Lesson Summary

Module 12: Monitoring Meraki MX Appliances For Government Networks

- Lesson Topics
- Lesson 1: Meraki Dashboard Status Page
- Lesson 2: Meraki Monitoring Environments For Government
- Lesson 3: Summary Reports
- Lesson 4: Organization Summary
- Lesson 5: Topology
- Lesson 6: Login Attempts
- Lesson 7: VPN Status
- Lesson 8: Alerts
- Lesson 9: Syslog
- Lesson 10: Traffic Analytics
- Lesson 11: Monitoring Clients
- Lesson Summary

Module 13: Troubleshooting Meraki MX Appliances For Government Environments

- Lesson Topics
- Lesson 1: Meraki Troubleshooting Methodology
- Lesson 2: Meraki Help And Support
- Lesson 3: Troubleshooting MX Management Tunnels

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Course Outline

Cont. Module 13

- Lesson 4: Troubleshooting A Faulty MX
- Lesson 5: Meraki MX Troubleshooting Tools
- Lesson 6: Change Log And Event Log
- Lesson 7: Meraki Packet Captures
- Lesson 8: Troubleshooting Uplinks To The Dashboard
- Lesson 9: Dashboard Alerts For Device Connectivity
- Lesson 10: Troubleshooting Client Connections
- Lesson Summary

Module 14: Configuring ThousandEyes & Meraki MX for Government Networks

- Lesson Topics
- Lesson 1: Thousand Eyes Introduction
- Lesson 2: MX Thousand Eyes Integration
- Lesson 3: Design & Technical Overview
- Lesson 4: Network Topologies And Deployment Considerations
- Lesson 5: ThousandEyes Via Meraki App Platform
- Lesson 6: Enabling & Deploying ThousandEyes On The MX Platform
- Lesson 7: Thousand Eyes Active Application Monitoring
- Lesson 8: Thousand Eyes Internet Outages
- Lesson Summary

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Course Outline

Module 15: Meraki MX APIs for Government and Integrations For Government

- Lesson Topics
- Lesson 1: Meraki API For Government and Integration for Government Overview
- Lesson 2: Meraki API Technologies And Tools for Government
- Lesson 3: Meraki Dashboard API For Government
- Lesson 4: Using Postman with Meraki for Government
- Lesson 5: Meraki Dashboard API Python Library
- Lesson 6: AsyncIO
- Lesson 7: Dashboard for Government APIs for MX
- Lesson 8: API VPN Map
- Lesson 9: Use Case – Pulling Statistics from Meraki Devices
- Lesson 10: Meraki Tools
- Lesson 11: Meraki Action Batches
- Lesson Summary