

Engineering Cisco Meraki Solutions (ECMS) 1.0 Course

Course Duration: 8 Hours

Course Code: ECMS-1.0

1. Course Overview

The **Engineering Cisco Meraki Solutions (ECMS) 1.0** course provides an in-depth understanding of Cisco Meraki's cloud-based architecture and dashboard. It equips learners with the knowledge and skills to confidently deploy, configure, and manage Meraki solutions across security, wireless, switching, and mobile device management. This course introduces core Meraki product families and demonstrates how they simplify IT management while enhancing scalability and security.

2. What You'll Learn?

By the end of this course, you will be able to:

- Understand the Meraki cloud architecture and dashboard.
- Configure and deploy Meraki devices including MX Security, MR Wireless, and MS Switches.
- Implement Meraki features for security, SD-WAN, and traffic management.
- Manage users, devices, and applications with Meraki Systems Manager.
- Perform basic troubleshooting and monitoring using the Meraki dashboard.
- Explore licensing, APIs, and integrations for scalable management.

3. Target Audience

This course is designed for:

- Network administrators and engineers.
- IT professionals managing Cisco Meraki networks.
- Technical sales engineers and system engineers.
- Anyone preparing for advanced Cisco Meraki certifications.

4. Pre-Requisites

To get the most out of this course, learners should have:

- Basic knowledge of networking concepts (LAN, WAN, routing, switching).
- Understanding of wireless technologies and IP addressing.
- Familiarity with general IT and security fundamentals.

5. Course Content

Module 1: Introduction to Cisco Meraki and Cloud Architecture

- Meraki product portfolio overview
- Cloud-based management and benefits

Module 2: Navigating the Meraki Dashboard

- Dashboard features and navigation
- Device enrollment and configuration

Module 3: Meraki MR – Wireless LAN

- Wireless features and configuration
- SSIDs, traffic shaping, and security policies

Module 4: Meraki MS – Switching

- Switch provisioning and management
- VLANs, Layer 2 features, and monitoring

Module 5: Meraki MX – Security & SD-WAN

- MX firewall, security, and VPN features
- Traffic shaping and content filtering

Module 6: Systems Manager (SM) and Device Management

- Mobile Device Management (MDM)
- Policies, profiles, and enrollment

Module 7: Monitoring, Troubleshooting & APIs

- Tools for diagnostics and monitoring
- API integrations and automation

Module 8: Licensing and Support

- Meraki licensing model
- Accessing support and documentation