

COURSE OVERVIEW:

Elevate your Cisco Meraki technical knowledge and skills with this three-day, instructor-led training! In this advanced technical training course, you'll gain the knowledge and skills to plan, design, implement, and operate complex Cisco Meraki solutions. This is the second of two courses that will prepare you to take the upcoming Cisco Meraki Solutions Specialist certification exam.

This course:

- Provides hands-on experience with Cisco Meraki equipment via innovative technical presentations and lab exercises
- Delivers expert instruction by senior members of the Meraki technical team
- Equips you with the knowledge and skills to confidently plan, design, implement, and operate complex Cisco Meraki solutions
- Prepares you to take the upcoming Cisco Meraki Solutions Specialist certification exam

PREREQUISITES

The knowledge and skills that a learner should have before attending this course are as follows:

- It is highly recommended that you have already attended and completed the ECMS1 course before attending this course.
- You should have general networking understanding and Meraki-specific proficiency

COURSE OBJECTIVES

The course, Engineering Cisco Meraki Solutions Part 2 (ECMS2) v1.0 elevates your knowledge of Cisco® Meraki™ technology. In this advanced technical training course, you'll learn how to plan for network deployments and integrations using the Cisco Meraki platform. Through practical hands-on instruction and experiences, you will learn how to operate Meraki networks and troubleshoot complex network incidents using the Meraki Dashboard and analytics. You will also learn how to design Meraki architectures for redundancy, high-density, and scalability by implementing comprehensive Meraki product features to meet design objectives. This course is the second of two courses that prepares you for Cisco Meraki certification.



Engineering Cisco Meraki Solutions, Part 2 (ECMS2)

Upon completing this course, the learner will be able to meet these overall objectives:

- Acquire the advanced skills and techniques to plan, design, implement, and operate the complex Cisco Meraki platform for cloud-based network management.
- Plan for network deployments and integrations using the Meraki platform
- Design Meraki architectures for redundancy, high-density, and scalability
- Implement comprehensive Meraki product features to meet design objectives
- Operate Meraki networks and troubleshoot complex network incidents using the Meraki Dashboard and analytics
- Prepare you to take the upcoming Meraki certification(s)

WHO SHOULD ATTEND:

This course is ideal for those who regularly deploy or manage Meraki networks and want to deepen their technical expertise and understanding of the full Meraki product suite and features. This may include professionals with job titles or in roles such as:

- Field deployment technicians
- Network administrators
- Pre-/Post-sales engineers
- Service provider engineers
- Systems engineers
- IT professionals

COURSE OUTLINE:

- Planning new Meraki architectures and expanding existing deployments
- Designing for scalable management and high availability
- Automating and scaling Meraki deployments
- Routing design and practices on the Meraki platform
- Implementing Quality of Service (QoS) and traffic shaping design
- Architecting VPN and WAN topologies
- Securing, expanding, and shaping the network
- Switched network concepts and practices
- Understand wireless configuration practices and concepts
- Understand Endpoint management concepts and practices
- Implement physical security concepts and practices



Engineering Cisco Meraki Solutions, Part 2 (ECMS2)

- Gaining additional network insight through application monitoring
- Preparing monitoring, logging, and alerting services
- Setting up Dashboard reporting and auditing capabilities
- Gaining visibility and resolving issues using Meraki features and built-in troubleshooting tools

LAB OUTLINE:

- Creating and Applying Tags
- Configuring Link Aggregation
- Setting Up Port Mirroring
- Establishing Auto VPN
- Configuring Virtual Interfaces and Routing
- Configuring Routes and Redistribution
- Configuring Quality of Service
- Configuring Traffic Shaping
- Configuring Load Balancing
- Defining Firewall Rules
- Enabling Advanced Malware Protection
- Enabling Intrusion Detection and Protection
- Enabling Content Filtering
- Configuring and Applying Access Policies
- Configuring Wireless Guest Access
- Configuring Service Set Identifiers (SSIDs)
- Implementing RF Profiles
- Implementing Air Marshal
- Creating System Manager (SM) Configuration Profiles
- Defining Security Policies
- Enforcing End-to-End Security
- Setting Up Motion Alerts
- Managing Video Retention
- Deploying Wireless Cameras
- Enabling Alerts
- Adding Monitoring and Reporting



Engineering Cisco Meraki Solutions, Part 2 (ECMS2)

- Generating Summary Reports
- Managing Firmware
- Peripheral Component Interconnect (PCI) Reporting
- Troubleshooting an Offline Device
- Troubleshooting Content Filtering
- Troubleshooting Remote Site Connectivity