# Engineering Cisco Meraki Solutions (ECMS)

**Category:** Networking & Security | **Vendor:** Cisco

**Duration:** 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

**Related Exam:** 500-220

## Course Overview

The Engineering Cisco Meraki Solutions training helps you gain the core knowledge and skills needed to deploy, plan, design, implement, and operate complex Cisco Meraki solutions. This training combines Engineering Cisco Meraki Solutions Part 1 and 2 trainings. This training helps prepare you for roles focused on implementing, securing, and managing Cisco Meraki™ based networks from a centralized dashboard. Topics covered include Cisco Meraki’s cloud-based solutions, understanding of network security protocols, design of scalable architectures, and application of troubleshooting strategies.

This training prepares you for the Cisco Meraki Solutions Specialist (ECMS 500-220) exam. If passed, you earn the Cisco Meraki Solutions Specialist certification.

How You'll Benefit

This training will help you:

- Gain a comprehensive understanding of the Cisco Meraki platform
- Develop expertise in designing, implementing, and securing Cisco Meraki networks
- Operate and manage networks using Cisco Meraki’s cloud-based tools and features
- Apply advanced monitoring and troubleshooting techniques
- Prepare for the ECMS 500-220 exam
- Earn 24 CE credits towards recertification

What to Expect in the Exam

Cisco Meraki Solutions Specialist (ECMS 500-220) is a 90-minute exam associated with the Cisco Meraki Solutions Specialist certification.

The exam tests your knowledge and skills to engineer Meraki solutions, including:

- Cloud management
- Design
- Implementing
- Monitoring
- Troubleshooting

## About This Course

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## Who Should Attend

This training is designed for anyone seeking the Cisco Meraki Solution Specialist certification. The training provides foundational knowledge and skills to engineer Cisco Meraki solutions, including cloud management, design, implementation, monitoring, troubleshooting, and the comprehensive features of the Cisco Meraki product suite.

The job roles best suited to the material in this training are:

- Consulting Systems Engineers
- Deployment Engineers
- Network Administrators
- Network Engineers
- Network Managers
- Site Reliability Engineers
- Systems Engineers
- Technical Solutions Architects
- Wireless Design Engineers
- Wireless Engineers
- Sales Engineers
- Account Managers

## Prerequisites & Entry Requirements

**General Prerequisites:**

Before taking this offering, you should have earned a Cisco Certified Networking Associate (CCNA) certification or be familiar with:

- General Networking

- Be actively engaged in the design, deployment, scaling, configuration, and management of enterprise networks, IPsec, and associated VPN technologies
- Be experienced with hierarchical network segmentation (access, distribution, and core layer) design and best practices
- Strong fundamental knowledge of internet protocol (IP) addressing and subnetting schemas necessary to build local area networks (LANs)
- A foundational understanding of network authentication, authorization, and accounting services
- Strong fundamental knowledge of dynamic routing protocols with focus and emphasis on open shortest path first (OSPF) and border gateway protocol (BGP)
- A foundational understanding of wired and wireless QoS mechanisms, packet queue operations, and practical implementations
- A foundational understanding of threat modeling concepts and methodologies and the ability to apply them to identify, analyze, and respond to cybersecurity threats
- A foundational understanding of network security controls and protocols, network management best practices, and data security
- Intermediate fundamental knowledge of radio frequency (RF) concepts, terminology, design principles, and practical implementations as they apply to wireless networking and current 802.11 wireless standards
- A foundational understanding of wireless security best practices centered on access control (802.1x) and spectrum security through wireless intrusion detection system (WIDS) and prevention system (WIPS)
- A foundational understanding of standard logging and monitoring protocols with a focus and emphasis on simple network management protocol (SNMP), syslog, and webhooks, and related implementation components or tools
- Be familiar with and have basic knowledge of Application Programming Interface (APIs) and related languages and formats, such as representational state transfer (REST) and JavaScript Object

Notation (JSON)

The following recommended Cisco offerings may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

- Describe Cisco Meraki cloud architecture, administration, and licensing
- Describe the hardware and features of Cisco Meraki product families
- Describe best practices for troubleshooting and when to contact Cisco Meraki support
- Plan new Cisco Meraki architectures and expand existing deployments
- Design the network for scalable management and high availability
- Describe how to automate and scale Cisco Meraki deployments with dashboard tools
- Use dynamic routing protocols to expand networks and improve wide-area network (WAN) performance
- Describe proper quality of service (QoS), policy, and performance-based routing configurations across a Cisco Meraki network and WAN optimization through traffic shaping
- Describe virtual private network (VPN) and WAN topologies and how to integrate them
- Secure, expand, and shape the network
- Implement switched network concepts and practices, and configure guest networks
- Implement wireless configuration practices and concepts
- Describe endpoint management concepts and practices using Cisco Meraki Systems Manager
- Describe physical security concepts and practices
- Gain network insight by monitoring applications
- Describe how to prepare monitoring, logging, and alerting services
- Set up reporting and auditing capabilities in the Cisco Meraki dashboard
- Monitor and troubleshoot issues using Cisco Meraki tools

## Detailed Course Outline

- Introducing the Cloud and the Cisco Meraki Dashboard
- Introducing Cisco Meraki Products and Administration
- Introducing Cisco Meraki Troubleshooting
- Planning New Cisco Meraki Architectures and Expanding Existing Deployment
- Designing for Scalable Management and High Availability
- Automating and Scaling Cisco Meraki Deployments
- Designing Routing on the Cisco Meraki Platform

- Introducing QoS and Traffic Shaping Design
- Building VPN and WAN Topologies
- Securing, Expanding, and Shaping the Network
- Introducing Switched Network Concepts and Practices
- Implementing Wireless Configuration Practices and Concepts
- Introducing Endpoint Management Concepts and Practices
- Introducing Physical Security Concepts and Practices
- Gaining Network Insight by Monitoring Applications
- Preparing, Monitoring, Logging, and Alerting Services
- Setting Up Reporting and Auditing Capabilities in the Cisco Meraki Dashboard
- Gaining Visibility and Resolving Issues Using Cisco Meraki Tools

**Skills You Will Learn:**

- Describe Cisco Meraki cloud architecture, administration, and licensing<br>- Describe the hardware and features of Cisco Meraki product families<br>- Describe best practices for troubleshooting and when to contact Cisco Meraki support<br>- Plan new Cisco Meraki architectures and expand existing deployments<br>- Design the network for scalable management and high availability<br>- Describe how to automate and scale Cisco Meraki deployments with dashboard tools<br>- Use dynamic routing protocols to expand networks and improve wide-area network (WAN) performance<br>- Describe proper quality of service (QoS), policy, and performance-based routing configurations across a Cisco Meraki network and WAN optimization through traffic shaping<br>- Describe virtual private network (VPN) and WAN topologies and how to integrate them<br>- Secure, expand, and shape the network<br>- Implement switched network concepts and practices, and configure guest networks<br>- Implement wireless configuration practices and concepts<br>- Describe endpoint management concepts and practices using Cisco Meraki Systems Manager<br>- Describe physical security concepts and practices<br>- Gain network insight by monitoring applications<br>- Describe how to prepare monitoring, logging, and alerting services<br>- Set up reporting and auditing capabilities in the Cisco Meraki dashboard<br>- Monitor and troubleshoot issues using Cisco Meraki tools

# Upcoming Schedule

**Available training dates for Engineering Cisco Meraki Solutions (ECMS):**

| Start Date | End Date | Location | Delivery | Price |
|---|---|---|---|---|
| 21 Dec 2026 | 24 Dec 2026 | Online | Virtual | €3,795.00 |

# Frequently Asked Questions

### Q: What delivery options are available for Engineering Cisco Meraki Solutions (ECMS)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: Which exam does this course prepare me for?

This course prepares you for the 500-220 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

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### Q: How many CPD hours does this course provide?

The 4-day Engineering Cisco Meraki Solutions (ECMS) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Engineering Cisco Meraki Solutions (ECMS) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Engineering Cisco Meraki Solutions (ECMS)?

Yes, we provide corporate training, dedicated training, and closed classes for Engineering Cisco Meraki Solutions (ECMS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: Engineering Cisco Meraki Solutions, Cisco Wireless Networking / Mobility, ECMS

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### Q: Why choose Nexus Human for Engineering Cisco Meraki Solutions (ECMS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Engineering Cisco Meraki Solutions (ECMS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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