



## Engineering Cisco Meraki Solutions (ECMS)

### Description

#### Discover the Benefits of Engineering Cisco Meraki Solutions (ECMS)

The Engineering Cisco Meraki Solutions (ECMS) training is ideal for professionals who want to master Cisco Meraki cloud-based networking technologies. This course helps you gain in-depth knowledge in designing, implementing, and managing network infrastructures with Cisco Meraki. Whether you're a network administrator, systems engineer, or consultant, this training is designed to provide you with a complete understanding of the Cisco Meraki platform and its numerous features.

#### Comprehensive training to become a Cisco Meraki expert

The course covers all necessary aspects for effectively managing a Cisco Meraki-based network, including device management, task automation, performance monitoring, and network troubleshooting. With a centralized dashboard, Cisco Meraki allows simplified network management while ensuring security and scalability. Through specific modules on automation, traffic shaping, and secure network design, you'll be prepared to meet the growing demands of modern network environments.

#### Course Content

##### Module 1: Introduction to Cisco Meraki Cloud and Dashboard

- Overview of Cisco Meraki cloud
- Dashboard navigation
- License and user management

##### Module 2: Overview of Cisco Meraki Products and Administration

- Introduction to Cisco Meraki products
- Main features of administration
- Device and network management

##### Module 3: Introduction to Cisco Meraki Troubleshooting

- Troubleshooting tools in the dashboard
- Strategies for solving common issues

#### **Module 4: Planning New Architectures and Expanding Existing Deployments**

- Planning network deployments
- Expanding existing networks

#### **Module 5: Designing for Scalability and High Availability**

- Designing scalable architectures
- Implementing high availability

#### **Module 6: Automating and Scaling Cisco Meraki Deployments**

- Automation tools available
- Scaling strategies

#### **Module 7: Designing Routing on the Cisco Meraki Platform**

- Implementing routing protocols
- Optimizing routing for complex networks

#### **Module 8: Introduction to QoS Design and Traffic Shaping**

- Quality of Service (QoS) principles
- Traffic shaping for high-performance environments

#### **Module 9: Creating VPN and WAN Topologies**

- Designing VPN topologies
- Configuring secure WAN networks

#### **Module 10: Securing, Expanding, and Shaping the Network**

- Securing Cisco Meraki networks
- Expanding existing networks

#### **Module 11: Introduction to Switched Network Concepts and Practices**

- Basic principles of switched networks
- Configuring switches in Meraki

#### **Module 12: Implementing Wireless Configuration Practices**

- Configuring wireless networks
- Optimizing wireless performance

#### **Module 13: Introduction to Endpoint Management Practices**

- Managing devices with Cisco Meraki Systems Manager

#### **Module 14: Introduction to Physical Security Concepts and Practices**

- Securing physical installations
- Monitoring and managing security systems

### **Module 15: Gaining Network Insights by Monitoring Applications**

- Monitoring applications and network usage

### **Module 16: Preparing, Monitoring, Logging, and Alert Services**

- Configuring alert and logging services
- Proactive network monitoring

### **Module 17: Configuring Reporting and Audit Capabilities in the Cisco Meraki Dashboard**

- Creating usage and audit reports

### **Module 18: Gaining Visibility and Troubleshooting Using Cisco Meraki Tools**

- Using built-in diagnostic tools

### **Lab / Exercises**

- Configure the Cisco Meraki dashboard
- Activate advanced features and optimize the network
- Troubleshoot the network using the Cisco Meraki dashboard
- Configure tags, link aggregation, port mirroring, and high-density SSIDs
- Configure routing on the Cisco Meraki platform
- Configure QoS, traffic shaping, and load balancing
- Configure network security
- Configure access policies and wireless guest access
- Configure SSIDs, RF profiles, and Air Marshal
- Implement endpoint management
- Deploy and configure physical security devices
- Activate alerts, configure monitoring, and reporting
- Troubleshoot a Cisco Meraki network

### **Documentation**

- Digital course materials included

### **Exam**

- This course prepares you for the Cisco Meraki Solutions Specialist exam (ECMS 500-220)

### **Participant profiles**

- System engineers
- Deployment engineers
- Network administrators
- Network engineers
- Wireless engineers
- Technical solution architects

### **Prerequisites**

- Experience designing and deploying enterprise networks
- Basic knowledge of IP addressing and subnetting
- Familiarity with routing protocols like OSPF and BGP
- Understanding of QoS mechanisms and wireless networking
- Knowledge of network security best practices
- Basic understanding of APIs and REST/JSON formats

## **Objectives**

- Master Cisco Meraki cloud architecture and licensing
- Understand Cisco Meraki product families and features
- Apply best practices for troubleshooting
- Plan and scale new Cisco Meraki architectures
- Automate and optimize Meraki deployments
- Secure and expand network infrastructures

## **Description**

Engineering Cisco Meraki Solutions (ECMS) training

## **Niveau**

Intermédiaire

## **Classroom Registration Price (CHF)**

3560

## **Virtual Classroom Registration Price (CHF)**

3560

## **Duration (in Days)**

4

## **Reference**

ECMS