# Cisco Meraki Wireless Network Optimization (CMWN)

**COURSE OVERVIEW**

In this advanced technical training course, you'll learn how to plan for wireless network deployments and integrations using the Cisco Meraki MR and MG product portfolio. Through practical hands-on instruction and experiences, you will learn how to design, configure, and troubleshoot Meraki wireless networks using the Meraki Dashboard and analytics. You will also learn how to troubleshoot wireless client issues, perform integration with Cisco Identity Services Engine (ISE), and work with Meraki support to quickly resolve problems.

**WHO WILL BENEFIT FROM THIS COURSE?**

This course is ideal for those who regularly deploy or manage Meraki networks and want to deepen their technical expertise and understanding of the Meraki Wireless MR and MG 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 engineer
- Field Engineers
- IT professionals

**PREREQUISITES**

Before enrolling in the CMWN course, it is highly recommended that you have already attended and completed the ECMS1 course before attending this training. You should also have general networking understanding, Meraki-specific proficiency, and knowledge in the following areas:

General network:
- Be actively engaged in the design, deployment, scaling, and management of enterprise networks
- Strong fundamental knowledge of IP addressing and subnetting schemas necessary to build local area networks

Meraki knowledge:
- Implement core configurations for a full stack solution in the Meraki Dashboard
- Deploy foundational Meraki product features to meet basic IT requirements
- Understand and leverage essential Meraki Dashboard tools for troubleshooting

**COURSE OBJECTIVES**

After completing the course, you should be able to:

- Plan for wireless network deployments and integrations using the Meraki platform
- Design Meraki wireless architectures for redundancy, high-density, and scalability
- Implement comprehensive Meraki product features to meet wireless design objectives
- Operate Meraki wireless networks and troubleshoot complex network incidents using the Meraki Dashboard and analytics
- Integrate Meraki Wireless networks with Cisco Identity Services Engine
- Troubleshoot wireless clients in a Meraki wireless network environment

This course will help you:

- Acquire the advanced skills and techniques to plan, design, implement, and operate Cisco Meraki wireless networks for cloud-based network management.

**COURSE OUTLINE**

Introduction to Cisco Meraki Wireless Network Optimization

- Front Matter
- Course Overview/Schedule
- Student Introductions

Meraki Wireless Network Design Guidance

- Meraki Wireless network portfolio
- Wireless network design considerations
- Wireless network design plans

Configuring Meraki MR Devices

- Advanced configuration overview
- Configuration via Templates

Meraki Monitoring Tools

- MR device status
- Logs and alerts
- Event Logs
- Change Log
- Alerts
- RF Spectrum
- Wireless Health
- Packet Capture

Monitoring Clients

- Client Monitoring Overview
- Common Client Problems
- Performance Monitoring
- Location Analytics

Cisco Meraki – ISE Integration
- ISE Integration Overview
- Meraki wireless network configuration
- ISE configuration
- ISE AAA configuration
- ISE integration troubleshooting

Troubleshooting Meraki Wireless
- Process/Flow
- Gathering Information
- General Troubleshooting Steps
- Identifying Faulty APs
- Wireless Health
- Signal Strength
- Channel Utilization
- Mesh Neighbors
- Air Marshall
- Band steering
- Radio Settings

Working with Meraki Support
- Process/ Flow Review
- Opening a Case
- Managing a case
- Closing a case
- RMA Process
- Escalations

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Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

**Premiere World Class Instruction Team**

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

**Enhanced Learning Experience**

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

**Convenient and Reliable Training Experience**

- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

**Outstanding Customer Service**

- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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