

## Course Outline

### Configuring Cisco MDS 9000 Series Switches Course DCMDS36: 4 days Instructor Led

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#### About this course

The Configuring Cisco MDS 9000 Series Switches (DCMDS) v3.6 course teaches you to implement, manage, and troubleshoot Cisco® MDS 9000 Series Switches to build highly available, scalable storage networks. Through expert instruction and extensive hands-on practice, you will learn how to deploy and utilize capabilities such as Virtual Storage Area Networks (VSANs), Role-Based Access Control (RBAC), N-Port Virtualization (NPV) fabric security, zoning, automation with NX-API, Slow Drain Analysis, SAN analytics, Fibre Channel over TCP/IP (FCIP) tunnels, and more. You will learn how to configure and implement platform features and learn troubleshooting techniques pertaining to Fibre Channel (FC) domains, firmware upgrades, zones, and zone mergers.

#### Audience profile

- Technical decision makers
- Network architects
- Data center systems engineers
- Field engineers

#### At course completion

After completing this course, students will be able to:

- Discover and describe the Cisco Multilayer Director Switch (MDS) platform of multilayer switches and directors
- Provision Cisco MDS Switches
- Describe key product features of the MDS platform
- Describe and implement automation of Cisco MDS Switches
- Configure and implement the Cisco MDS switches and platform features
- Resolve issues and troubleshoot FC domains, zones and zone merges, and switch boot and firmware upgrades

#### Course Outline

- Describing Cisco MDS Platform
- Provisioning Cisco MDS Switches
- Building the Fibre Channel Fabric with Cisco MDS Switches
- Automating Cisco MDS Fabric
- Monitoring and Reporting Cisco MDS Features
- Troubleshooting Common Cisco MDS Issues

#### Lab Outline

- Perform Initial MDS Configuration
- Setup Cisco DCNM
- Explore DCNM-SAN Client and DCNM Cisco Device Manager
- Configure and Use RBAC
- Configure and Use RBAC with DCNM-SAN Client and Device Manager
- Manage VSANs and Fibre Channel Domain

## Course Outline

- Configure Interfaces
- Configure Device Aliases and Zoning
- Configure FCIP Tunnels and FCIP High Availability
- Configure IVR for SAN Extension
- Configure NPV and NPIV
- Explore and Automate with NX-API
- Monitor SAN with Cisco DCNM
- Configure SAN Analytics and SAN Telemetry Streaming
- Troubleshoot Fibre Channel Domains, Zoning, and Zone Merges
- Perform Slow-Drain Analysis with Cisco DCNM