

# Introducing Cisco Nexus 9000 Switches in NX-OS Mode (DCINX9K)

Duration: **3 days**

## Course Overview

The Introducing Cisco Nexus 9000 Switches in NX-OS Mode (DCINX9K) v2.1 course shows you how to implement, manage, and troubleshoot Cisco Nexus 9000 Series Switches in Cisco NX-OS mode. Through expert instruction and extensive hands-on learning, you will learn how to deploy capabilities including Virtual Extensible LAN (VXLAN), Multiprotocol Label Switching (MPLS), high availability features, Intelligent Traffic Director, troubleshooting tools and techniques, NX-OS programmability features, and open interface technologies. The course also provides an introduction to Cisco Data Center Network Manager (DCNM) for management.

## Who should attend?

1. Data Center Engineers
2. Data Center Architects
3. Network Designers
4. Network Administrators
5. Network Engineers
6. Systems Engineers
7. Consulting Systems Engineers
8. Technical Solutions Architects
9. Field Engineers
10. Cisco Integrators and Partners

## Prerequisites

It is recommended, but not required, to have the following skills and knowledge before attending this course:

1. Good understanding of networking protocols, routing, and switching
2. Understanding of Cisco data center architecture
3. Experience configuring advanced routing and switching technologies such as Border Gateway Protocol (BGP) and Open Shortest Path First (OSPF)

## Course Objectives

Upon completion of this course, you will be able to:

1. Describe Cisco Nexus 9000 Series Switch software and hardware components
2. Describe key Cisco Nexus 9000 Series Switch NX-OS software features

3. **Manage Cisco Nexus 9000 Series Switch configurations using Ansible**
4. **Implement VXLAN BGP eVPN on Cisco Nexus 9000 Series Switches**
5. **Describe MPLS Layer 3 VPN implementation on Cisco Nexus 9000 Series Switches**
6. **Manage Cisco Nexus 9000 Series Switches using NX-API and Python**
7. **Implement Intelligent Traffic Director**
8. **Troubleshoot and manage Cisco Nexus 9000 Series Switches using Bash shell and Guest shell**
9. **Manage Cisco Nexus 9000 Series Switches using Cisco DCNM**

**This course will help you to:**

1. **Learn how to deploy and troubleshoot the Cisco Nexus 9000 Series Switches in NX-OS mode to support performance, resiliency, scalability, and enhanced operations for data centers**
2. **Use programmability features to configure and manage the Cisco Nexus 9000 Series Switches, helping your IT organization meet high-priority business needs, save time, and reduce errors due to manual processes**
3. **Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software**
4. **Succeed in today's demanding data center operations roles**