



CISCO TRAINING

Implementing Cisco NX-OS Switches and Fabrics in the Data Center

Master Cisco NX-OS switches and data center fabrics. Implement and manage robust, scalable network infrastructures efficiently.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intensive, 2-hour 'Implementing Cisco NX-OS Switches and Fabrics in the Data Center' course at Computer Pride is meticulously designed for network professionals seeking to master the deployment and management of Cisco Nexus switches and their underlying NX-OS operating system. You will delve into the core technologies that power modern data centers, including Virtual Port Channels (vPC), Fabric Extenders (FEX), and foundational concepts of VXLAN-based fabrics. This program provides crucial insights into configuring, optimizing, and troubleshooting Cisco NX-OS environments, empowering you to build resilient, high-performance, and scalable data center networks.

By completing this intermediate-level course, participants will gain practical, hands-on skills essential for implementing robust data center infrastructure. You'll learn how to leverage Cisco NX-OS features to ensure network stability, optimize traffic flow, and prepare your data center for future growth and cloud integration. This training is a vital step for IT professionals looking to advance their careers in the rapidly evolving data center landscape, equipping them with the expertise to tackle complex networking challenges and contribute significantly to their organizations' digital transformation initiatives.

Duration	2 hours
Level	Intermediate
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Cisco NX-OS Foundation and Switch Management

- Cisco NX-OS Architecture and Licensing Overview
- Cisco Nexus Series Hardware Portfolio
- Initial Device Configuration and Management (CLI, SNMP, NTP, AAA)
- NX-OS Software Images and Upgrade Procedures

02 Module 2: Implementing Layer 2 and Layer 3 Features on Nexus

- VLANs, Trunks, and Spanning Tree Protocol (STP) on NX-OS
- Configuring Routing Protocols (OSPF, EIGRP, BGP) on Nexus Devices
- First Hop Redundancy Protocols (HSRP, VRRP) for High Availability
- Quality of Service (QoS) Implementation Basics

03 Module 3: Building Data Center Fabrics with NX-OS

- Virtual Port Channel (vPC) Design and Configuration Best Practices
- Fabric Extender (FEX) Deployment and Operational Concepts
- Introduction to VXLAN EVPN for Next-Generation Fabrics
- Monitoring, Troubleshooting, and Best Practices for NX-OS Fabrics

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> Data Center Network Engineer

- > **Network Operations Specialist (with Data Center focus)**
- > **Cloud Network Administrator**

FREQUENTLY ASKED QUESTIONS

Q: How will mastering Cisco NX-OS implementation skills specifically enhance my ability to design and manage a robust data center network?

This course provides you with the practical skills to deploy high-availability features like vPC, integrate Fabric Extenders for simplified cabling, and understand the foundational building blocks of modern VXLAN-based fabrics. This directly translates into an improved ability to design more resilient, scalable, and efficient data center networks, minimizing downtime and optimizing performance, which are critical for any robust data center infrastructure.

Q: What prior experience or certifications are recommended before enrolling in this 'Implementing Cisco NX-OS' course?

While there are no strict prerequisites, we strongly recommend participants have a foundational understanding of networking concepts (equivalent to CCNA level), basic familiarity with data center terminology, and experience with Cisco IOS command-line interface. This intermediate course builds upon those fundamental networking principles, focusing specifically on the unique aspects and functionalities of Cisco NX-OS.

Q: Beyond core implementation, how does this course prepare me for advanced data center technologies or Cisco certifications like CCNP Data Center?

This course serves as a crucial stepping stone by solidifying your understanding and practical skills in Cisco NX-OS, vPC, FEX, and introductory VXLAN. These are fundamental components for advanced data center architectures and are heavily tested in higher-level certifications such as CCNP Data Center. The hands-on implementation experience gained here will provide a strong foundation for tackling more complex design, automation, and troubleshooting scenarios in the future.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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