



# DCNX5K - Configuring Cisco Nexus 5000 Switches v3.0

Code: 3802

5 days

## Course Overview

In this course, you will learn the key components and procedures that are needed to install, configure, manage, and troubleshoot Cisco Nexus 5000 Series Switches and Cisco Nexus 2000 Series Fabric Extenders in the LAN, SAN, and Unified Fabric Environments.

## Who Needs To Attend

- Systems and field engineers
- Consulting systems engineers
- Technical solutions architects
- Cisco integrators and partners who install and implement the Cisco Nexus 7000 and 5000 Series switches and the Cisco Nexus 2000 Series fabric extenders
- Data center engineers and managers
- Program managers
- Project managers

## Course Details

## Topics Include

- Products that comprise the Cisco Nexus 5000 Series Switches product family
- Products that comprise the Cisco Nexus 2000 Series Fabric Extender product family
- Cisco Nexus 5000 Series Switch system architecture
- Architecture, features, and usage of the Cisco Nexus Operating System (NX-OS) Software
- Configure network features on Cisco Nexus 5000 Series Switches for LAN operation
- Configure Cisco Nexus 2000 Series Fabric Extenders for operation with the Cisco Nexus 5000 Series Switches
- Configure Ethernet port channels and virtual port channels (vPC) on Cisco Nexus 5000 Series Switches
- Configure Quality of Service (QoS)
- Components of the Fibre Channel Protocol, the Fibre Channel over Ethernet (FCoE) protocol, and IEEE Data Center Bridging (DCB) Ethernet Enhancements
- Configure Cisco Nexus 5000 Series Switches to support the FCoE protocol
- Configure Cisco Nexus 5000 Series Switches for connection to the SAN
- Secure the operation of Cisco Nexus 5000 Series Switches

- Configure system management features on Cisco Nexus 5000 Series Switches
- Understand the high availability and In Service Software Update (ISSU) features of Cisco Nexus 5000 Series Switches
- Implement a structured troubleshooting process using available tools and resources of Cisco Nexus 5000 Series Switches and troubleshoot real world issues relating to the LAN, SAN, and FCoE

## Course Outline

### 1. Cisco Nexus 5000 Series Switch Product Overview

- Cisco Nexus 5000 Series Switches
- Cisco Nexus 2000 Series Fabric Extender Product Overview
- High-Level Product Features Overview
- Deployment Considerations

### 2. Cisco Nexus 5000 Series Switch Hardware Architecture and Device Administration

- Cisco Nexus 5000 Series Switch Hardware Architecture
- Hardware Installation Procedures
- Configure User Management
- Graphical Management Tools
- Configure System Management
- Cisco Nexus High Availability
- Troubleshooting Tools

### 3. Cisco Nexus 5000 Series Switch Network Feature Configuration

- Cisco NX-OS Software Architecture
- Configure Layer 2 Switching Features
- Troubleshoot Layer 2 Switching
- Configure the Cisco Nexus 2000 Series Fabric Extender
- Configure Virtual Port Channels and Enhanced vPC
- Configure Host Virtual Port Channels
- Configure Quality of Service
- Configure Cisco FP
- Fibre Channel Protocol
- FCoE Protocol
- Data Center Bridging Enhancements
- Configure FCoE
- Troubleshoot FCoE
- Configure SAN Switching Features
- Implement Cisco NPV Mode and NPIV
- Troubleshoot SAN Switching

## Prerequisites

- Solid understanding of networking protocols
- Knowledge of the Fibre Channel Protocol and the SAN environment

- CCNA certification is recommended but not required