



## DCNX7K (Configuring Cisco Nexus 7000 Switches)

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### 前提条件

- Fibre Channel プロトコルと SAN 環境の理解 (推奨)

下記のコースを受講済み、または同等の知識を有する方

- [ROUTE \(Implementing Cisco IP Routing\)](#)
- [SWITCH \(Implementing Cisco Switched Networks\)](#)

### 受講対象者

- ネットワーク管理者
- ネットワーク設計者
- ネットワークエンジニア
- システムエンジニア
- シスコインテグレーター
- シスコパートナー

### 概要

このコースでは、Cisco Nexus 7000 シリーズスイッチをインストールおよび実装するために必要な知識とスキルについて学習します。Cisco Nexus 7000 シリーズスイッチの主なコンポーネントと、インストール、設定、管理、トラブルシューティングに必要な手順について説明します。

### 目的

このコースを修了すると次のことができるようになります。  
Cisco Nexus 7000 シリーズスイッチを設定する

### アウトライン

Module 1: Cisco Nexus 7000 Series Switches  
Lesson 1: Describing the Cisco Nexus Product Switch  
Lesson 2: Describing Cisco Nexus 7000 Series Switch Deployment Models

Module 2: Cisco Nexus 7000 Series Switch Hardware

Lesson 1: Describing Cisco Nexus 7000 and 7700 Series Switch Chassis

Lesson 2: Describing Cisco Nexus 7000 Series Switch Supervisor, I/O, and Fabric Modules

Lesson 3: Describing Cisco Nexus 7000 Series Switch Forwarding and Packet Flow

Module 3: Cisco Nexus 2000 Series Fabric Extender

Lesson 1: Describing Cisco Nexus 2000 Series Fabric Extender Hardware

Lesson 2: Describing Cisco Nexus 2000 Series Fabric Extender Support on Cisco Nexus 7000 Series Switches

Module 4: Cisco NX-OS Software

Lesson 1: Describing Cisco NX-OS Architecture, Key Features, and Capabilities

Lesson 2: Describing the Cisco Nexus 7000 Series Licensing Model

Module 5: Cisco Nexus 7000 Series Switch Administration, Management, and Troubleshooting

Lesson 1: Using Cisco Nexus 7000 Series Switch Management Interfaces and Setup Utilities

Lesson 2: Managing Cisco Nexus 7000 Series Switch User Access with Cisco NX-OS

Lesson 3: Configuring Cisco Nexus 7000 Series Switch System Management Features

Lesson 4: Using Troubleshooting Processes and Tools

Lesson 5: Troubleshooting Memory and Packet Flow Issues

Lesson 6: Describing the Cisco Nexus 7000 Series NAM-NX1

Module 6: Virtual Device Contexts on Cisco Nexus 7000 Series Switches

Lesson 1: Describing Virtual Device Contexts

Lesson 2: Configuring VDCs

Lesson 3: Describing Management Settings for VDCs

Module 7: Layer 2 Switching Features on Cisco Nexus 7000 Series Switches

Lesson 1: Describing and Configuring Security Features

Lesson 2: Configuring Cisco Nexus 2000 Series Fabric Extenders

Lesson 3: Configuring VLANs and Advanced VLAN Features

Lesson 4: Configuring STP and STP Extensions

Lesson 5: Configuring Q-in-Q

Module 8: Port Channels and Virtual Port Channels on Cisco Nexus 7000 Series Switches

Lesson 1: Describing Port Channels

Lesson 2: Describing vPCs

Lesson 3: Configuring vPCs

Lesson 4: Troubleshooting vPC

Module 9: Cisco FabricPath on Cisco Nexus 7000 Series Switches

Lesson 1: Describing Cisco FabricPath Architecture

Lesson 2: Configuring Cisco FabricPath

Lesson 3: Troubleshooting Cisco FabricPath

Lesson 4: Describing Cisco DFA Architecture

Module 10: Layer 3 Switching Features on Cisco Nexus 7000 Series Switches

Lesson 1: Describing the Cisco NX-OS Forwarding Architecture

Lesson 2: Configuring Routing Protocols

Lesson 3: Configuring FHRP Protocols

Lesson 4: Describing and Configuring BFD

Lesson 5: Configuring Multicast

Module 11: MPLS on Cisco Nexus 7000 Series Switches

Lesson 1: Describing MPLS

Lesson 2: Configuring MPLS on Cisco Nexus 7000 Switches

Lesson 3: Configuring MPLS Layer 3 VPNs

Lesson 4: Configuring MPLS Layer 2 VPNs

Lesson 5: Configuring MPLS TE

Module 12: Cisco OTV on Cisco Nexus 7000 Series Switches

Lesson 1: Describing Cisco OTV

Lesson 2: Configuring Basic Cisco OTV

Lesson 3: Configuring Cisco OTV Advanced Features

Module 13: VXLAN on Cisco Nexus 7000 Series Switches

Lesson 1: Describing VXLAN MP-BGP EVPN Technology

Lesson 2: Configuring VXLAN and MP-BGP EVPN on Cisco Nexus 7000 Series Switches

Module 14: LISP on Cisco Nexus 7000 Series Switches

Lesson 1: Describing LISP

Lesson 2: Configuring LISP on Cisco Nexus 7000 Series Switches

Module 15: FCoE on Cisco Nexus 7000 Series Switches

Lesson 1: Describing FCoE

Lesson 2: Describing FCoE Support on Cisco Nexus 7000 Series Switches

Lesson 3: Configuring FCoE on Cisco Nexus 7000 Series Switches

Module 16: Security Features on Cisco Nexus 7000 Series Switches

Lesson 1: Describing and Configuring Security Features

Lesson 2: Describing and Configuring Cisco TrustSec on Cisco Nexus 7000 Series Switches

Module 17: QoS on Cisco Nexus 7000 Series Switches

Lesson 1: Describing QoS in the Data Center

Lesson 2: Configuring QoS on the Cisco Nexus 7000 Series Switches

Module 18: Cisco ITD and RISE on Cisco Nexus 7000 Series Switches

Lesson 1: Describing Cisco ITD

Lesson 2: Configuring Cisco ITD

Lesson 3: Describing Cisco RISE

Module 19: Cisco NX-API and Python on Cisco Nexus 7000 Series Switches

Lesson 1: Using Cisco NX-API on Cisco Nexus 7000 Series Switches

Lesson 2: Using Python on Cisco Nexus 7000 Series Switches

Lab Outline

Lab 1: Cisco Nexus 7000 Platform Discovery

Lab 2: Configuring User Management

Lab 3: Configuring System Management

Lab 4: Configuring Troubleshooting Features

Lab 5: Configuring Layer 2 Switching

Lab 6: Configuring vPC

Lab 7: Configuring Cisco FabricPath

Lab 8: Troubleshooting vPC and Cisco FabricPath

Lab 9: Configuring Layer 3 Switching

Lab 10: Configuring FHRP

Lab 11: Configuring MPLS

Lab 12: Configuring Cisco OTV

Lab 13: Implementing VXLAN Bridging on the Cisco Nexus 7000 Series Switch

Lab 14: Configuring LISP

Lab 15: Configuring FCoE

Lab 16: Configuring Security Features (Optional)

Lab 17: Configuring QoS (Optional)