

## **Outline: Configuring Cisco Nexus 5000 Switches (DCNX5K) 3.1**

### **Module 1: Cisco Nexus 5000 Series Switches**

- Nexus data center product overview
- Nexus 3000 series switches
- Nexus 4000 series switches
- Nexus 5500 and 5600 series switches
- Nexus 6000 series switches
- Nexus 2000 series fabric extenders
- Module Summary
- Module Self-Check

### **Module 2: Cisco Nexus 5000 Series Switch Administration and Management**

- Describing the Cisco NX-OS Software Architecture
- Configuring System Management Features
- Configuring User Management
- Configuring Cisco Prime DCNM
- Describing Administration and Management Troubleshooting Tools
- Module Summary
- Module Self-Check

### **Module 3: Cisco NX-API and Python on Cisco Nexus 5000 Series Switches**

- Using Cisco NX-API on Cisco Nexus 5000 Series Switches
- Using Python on Cisco Nexus 5000 Series Switches
- Module Summary
- Module Self-Check

### **Module 4: Cisco Nexus 5000 Series Switch LAN Features**

- Configuring Cisco Nexus 2000 Series Fabric Extenders
- Troubleshooting Cisco Nexus 2000 Series Fabric Extenders
- Configuring Layer 2 Switching Features
- Troubleshooting Layer 2 Switching
- Describing vPC Technology and Enhanced vPC
- Configuring vPCs and EvPCs
- Troubleshooting vPCs and EvPCs
- Describing Cisco Adapter-FEX and VM-FEX
- Cisco FabricPath
- Configuring Cisco FabricPath
- Troubleshooting Cisco FabricPath
- Describing Cisco DFA
- Describing Cisco RISE
- Describing Cisco ITD
- Configuring Cisco ITD

- Module Summary
- Lesson 4-17: Module Self-Check

#### Module 5: VXLAN on Cisco Nexus 5000 Series Switches

- Describing VXLAN Technology
- Configuring VXLAN on Cisco Nexus 5000 Series Switches
- Module Summary
- Module Self-Check

#### Module 6: Cisco Nexus 5000 Series Switch SAN Features

- Describing FCP
- Describing SAN Switching
- Configuring SAN Switching
- Troubleshooting SAN Switching
- Describing Cisco NPV Mode and NPIV
- Configuring Cisco NPV Mode and NPIV
- Troubleshooting Cisco NPV Mode and NPIV
- Module Summary
- Module Self-Check

#### Module 7: Cisco Nexus 5000 Series Switch Unified Fabric Features

- Describing Data Center Bridging Enhancements
- Describing the FCoE Protocol
- Configuring FCoE
- Describing Dynamic FCoE with Cisco FabricPath
- Troubleshooting FCoE
- Module Summary
- Module Self-Check

#### Labs:

- Initial Switch Configuration
- Configuring System Management
- Upgrading the Cisco NX-OS Software with ISSU
- Configuring User Security
- Configuring Cisco Prime DCNM to Perform Network Discovery
- Using Troubleshooting Tools
- Connecting the Cisco Nexus 2000 Series Fabric Extender
- Configuring Layer 2 Switching Features
- Troubleshooting Layer 2 Switching
- Configuring FEX Active-Active vPC and EvPC
- Configuring Host vPC
- Configuring Cisco FabricPath
- Implementing VXLAN Bridging on the Cisco Nexus 5000 Series Switch
- Configuring SAN Switching

- Configuring Cisco NPV Mode and NPIV
- Troubleshooting SAN Switching
- Configuring FCoE
- Troubleshooting FCoE