

Cisco® Implementing Cisco® Data Center Unified Fabric v5.0 (DCUFI)

Course Overview

This program designed for systems, field and consulting systems engineers, technical solutions architects, and Cisco integrators and partners who install and implement the Cisco Nexus 7000 and 5000 Switch, and the Cisco Nexus 2000 Fabric Extender.

This is a 5-day class



Who Should Attend

The primary audience for this course is as follows: ? Network engineers, systems engineers, consulting systems engineers, technical solutions architects, and Cisco integrators and Partners who sell, implement, and maintain Cisco Nexus products in the data center. The secondary audience for this course is as follows: ? Network designers, network administrators, and network managers responsible for identifying and managing Cisco Nexus products in the data center.

Course Objectives

Upon completing this course, the learner will be able to meet these overall objectives:

- Identify the Cisco Nexus product family, specifically the Cisco Nexus 7000 Switch chassis and components, the Cisco Nexus 5000 Switch, and the Cisco Nexus 2000 Fabric Extender
- Install the Cisco Nexus products in a Cisco Data Center Business Advantage environment
- Given a requirement, identify how to plan and implement virtual device contexts into the solution
- Evaluate the security features available on the Cisco Nexus 7000 Switch to identify which features should be implemented into a solution
- Evaluate and configure the Connectivity Management Processor on the Cisco Nexus 7000 Switch and identify the management options available
- Evaluate the service-level and network-level high availability of the Cisco Nexus switches and how to use the Cisco IOS In-Service Software Upgrade feature
- Discuss the Fibre Channel protocol including Fibre Channel addressing, flow control, and zoning
- Translate a given design into an implementation plan for configuring Fibre Channel over Ethernet on the Cisco Nexus switch
- Understand the processes, tools, and resources for troubleshooting the data center infrastructure, interconnectivity, and operations

Course Outline



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1 Cisco Nexus Product Overview

Identifying the Cisco Data Center Business Advantage Architecture
Identifying Cisco Nexus Products
Identifying the Cisco Unified Fabric Solution
Integrating Services

2 Cisco Nexus Switch Feature Configuration

Configuring Virtual Device Contexts
Configuring Layer 2 Switching Features
Configuring Port Channels
Configuring Layer 3 Switching Features
Configuring IP Multicast

3 Cisco Nexus Switch Advanced Feature Configuration

Configuring Security Features
Understanding Overlay Transport Virtualization
Implementing Quality of Service

4 Cisco Nexus Series Switch Management

Using the Connectivity Management Processor
Configuring User Management
Understanding System Management

5 Redundancy on Cisco Nexus Switches

Understanding High Availability and Redundancy
Implementing Cisco FabricPath

6 Fibre Channel over Ethernet

Understanding Fibre Channel Protocol
Understanding FCoE Protocol
Identifying Data Center Bridging Ethernet Enhancements

7 Fibre Channel over Ethernet Configuration

Implementing FCoE
Configuring SAN Switching Features
Configuring NPV Mode
Using SAN Management Tools

8 Troubleshooting on Cisco Nexus Switches

Troubleshooting the Data Center Infrastructure
Troubleshooting Tools and Resources