Cisco Certification
DCUFI - Implementing Cisco Data Center Unified Fabric

Description:
Implementing Cisco Data Center Unified Fabric v4.0 is a 5-day ILT training program designed for systems and field engineers, 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. The course covers the key components and procedures needed to install, configure, manage, and troubleshoot the Cisco Nexus 7000 and 5000 Switches in the network and SAN environment.

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

Outline:

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

Cisco Nexus Switch Advanced Feature Configuration
  - Configuring Security Features
  - Understanding Overlay Transport Virtualization
  - Implementing Quality of Service

Cisco Nexus Series Switch Management
  - Using the Connectivity Management Processor
  - Configuring User Management
  - Understanding System Management

Redundancy on Cisco Nexus Switches
  - Understanding High Availability and Redundancy
  - Implementing Cisco FabricPath

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

Fibre Channel over Ethernet Configuration
  - Implementing FCoE
  - Configuring SAN Switching Features
  - Configuring NPV Mode
  - Using SAN Management Tools

Troubleshooting on Cisco Nexus Switches
  - Troubleshooting the Data Center Infrastructure
  - Troubleshooting Tools and Resources