

# Implementing Cisco Data Center Unified Fabric (DCUFI)

**ID :** DCUFI

**Prix :** 3 600,00 EUR (HT)

**Durée :** 5 jours

## A qui s'adresse cette formation

The primary audience for this course is as follows:

- Network Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators
- 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
- Network Managers

responsible for identifying and managing Cisco Nexus products in the data center

## Pré-requis

The knowledge and skills that a learner must have before attending this course are as follows:

- Good understanding of networking protocols
- Recommended CCNA Certification
- Good understanding of the Fibre Channel protocol and the SAN environment
- Recommended attendance of a Fibre Channel protocol class or equivalent experience
- Recommended attendance of the Implementing Cisco Storage Network Solutions (ICSNS) class or equivalent experience

## Objectifs de la formation

Implementing Cisco Data Center Unified Fabric v4.0 is a 5-day course for those 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. 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

## Contenu de la formation

- 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
- DCUFI v4.0 Labs