

# Implementing and Operating Cisco Data Center Core Technologies (DCCOR)

ID DCCOR Price 3,595.— €(excl. tax) Duration 5 days

## Course Overview

The **Implementing and Operating Cisco Data Center Core Technologies (DCCOR)** training helps you prepare for the Cisco® CCNP® Data Center and CCIE® Data Center certifications for advanced-level data center roles. In this course, you will master the skills and technologies you need to implement data center compute, LAN and SAN infrastructure. You will also learn the essentials of automation and security in data centers. You will gain hands-on experience deploying, securing, operating, and maintaining Cisco data center infrastructure including: Cisco MDS Switches and Cisco Nexus Switches; Cisco Unified Computing System™ (Cisco UCS®) B-Series Blade Servers, and Cisco UCS C-Series Rack Servers. This course also earns you 64 Continuing Education (CE) credits towards recertification.

This course has 5 ILT days with 3 additional self-study days (3 days of content to be covered by the student in their own time).

This course, including the self-paced material, helps prepare you to take the exam:

- 350-601 Implementing Cisco Data Center Core Technologies (DCCOR)

## How you'll benefit

This course will help you:

- Gain experience implementing, securing and automating network, compute, and storage infrastructure
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software
- Qualify for professional and expert-level job roles in the high-demand area of enterprise-class data center environments
- Earn 64 CE credits toward recertification

## What to expect in the exam

This course will help you prepare to take the 350-601 DCCOR exam. This exam tests your knowledge of implementing core data center technologies including network, compute, storage network, automation, and security. After you pass 350-601 DCCOR:

- You earn the Cisco Certified Specialist - Data Center Core certification and you satisfy the core requirement for these certifications:
  - CCNP Data Center
  - CCIE Data Center

## Who should attend

- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Data center engineers
- Consulting systems engineers
- Technical solutions architects
- Field engineers
- Cisco integrators and partners
- Server administrator
- Network manager

## This course is part of the following Certifications

Cisco Certified Network Professional Data Center (CCNP DATA CENTER)

## Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- Familiarity with Ethernet and TCP/IP networking
- Familiarity with SANs
- Familiarity with Fibre Channel protocol
- Identify products in the Cisco Data Center Nexus and Cisco

#### MDS families

- Understanding of Cisco Enterprise Data Center architecture
- Understanding of server system design and architecture
- Familiarity with hypervisor technologies (such as VMware)

These Cisco courses are recommended to help you meet these prerequisites:

- [Implementing and Administering Cisco Solutions \(CCNA\) v2.1](#)
- [Understanding Cisco Data Center Foundations \(DCFNDU\)](#)

### Course Objectives

After taking this course, you should be able to:

- Implement routing and switching protocols in Data Center environment
- Implement overlay networks in data center
- Introduce high-level Cisco Application Centric Infrastructure (Cisco ACI™) concepts and Cisco Virtual Machine manager (VMM) domain integration
- Describe Cisco Cloud Service and deployment models
- Implement Fibre Channel fabric
- Implement Fibre Channel over Ethernet (FCoE) unified fabric
- Implement security features in data center
- Implement software management and infrastructure monitoring
- Implement Cisco UCS Fabric Interconnect and Server abstraction
- Implement SAN connectivity for Cisco Unified Computing System™ (Cisco UCS®)
- Describe Cisco HyperFlex™ infrastructure concepts and benefits
- Implement Cisco automation and scripting tools in data center
- Evaluate automation and orchestration technologies

### Detailed Course Outline

#### Implementing Data Center Switching Protocols

- Spanning Tree Protocol
- Port Channels Overview

#### Implementing First-Hop Redundancy Protocols

- Hot Standby Router Protocol (HSRP) Overview
- Virtual Router Redundancy Protocol (VRRP) Overview

#### Implementing Routing in Data Center

- Open Shortest Path First (OSPF) v2 and Open Shortest Path Protocol (OSP) v3
- Border Gateway Protocol

#### Implementing Multicast in Data Center

- IP Multicast in Data Center Networks
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD)

#### Implementing Data Center Overlay Protocols

- Cisco Overlay Transport Virtualization
- Virtual Extensible LAN

#### Implementing Network Infrastructure Security

- User Accounts and Role Based Access Control (RBAC)
- Authentication, Authorization, and Accounting (AAA) and SSH on Cisco NX-OS

#### Describing Cisco Application-Centric Infrastructure

- Cisco ACI Overview, Initialization, and Discovery
- Cisco ACI Management

#### Describing Cisco ACI Building Blocks and VMM Domain Integration

- Tenant-Based Components
- Cisco ACI Endpoints and Endpoint Groups (EPG)

#### Describing Packet Flow in Data Center Network\*

- Data Center Traffic Flows
- Packet Flow in Cisco Nexus Switches

#### Describing Cisco Cloud Service and Deployment Models

- Cloud Architectures
- Cloud Deployment Models

#### Describing Data Center Network Infrastructure Management, Maintenance, and Operations

- Time Synchronization
- Network Configuration Management

# About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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- ✓ Consulting Services
- ✓ Managed Training Services
- ✓ Digital Learning Solutions
- ✓ Content Development
- ✓ Remote Labs
- ✓ Talent Programs
- ✓ Event Management Services

## Training Methods

- ✓ Classroom Training
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Classroom & Online Hybrid
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobile Learning

## Technologies & Solutions

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- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
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