ITTcert
BY ORSYS

Course : Implementing and Operating Cisco Data Center Core Technologies (DCCOR) v1.3

Official course, exam preparation 350-601 DCCOR

Practical course - 5d - 35h00 - Ref. CDZ
Price : 4350 € E.T.

With this 5-day classroom course and 3 days of self-study, you'll master the key skills needed to implement computing, LAN and SAN infrastructures in data centers. You'll also learn the basics of automation and security. Training includes hands-on practice in deploying, securing, operating and maintaining Cisco infrastructure, with MDS and Nexus switches, as well as Cisco UCS B-Series (blade) and C-Series (rack) servers.

Teaching objectives

At the end of the training, the participant will be able to:

- ✔ Implement routing and switching protocols and overlay networks in data centers
- ✔ Introduce Cisco ACI™ concepts and Cisco VMM domain integration.
- ✔ Describe Cisco cloud services and the different deployment models
- ✔ Implement a unified Fibre Channel and FCoE infrastructure
- ✔ Implement security features in a data center environment
- ✔ Manage software and supervise data center infrastructure
- ✔ Deploying Cisco UCS Fabric Interconnect and server abstraction
- ✔ SAN connectivity for Cisco UCS® servers
- ✔ Introduce the concepts and benefits of Cisco HyperFlex™
- ✔ Using Cisco automation and scripting tools in the data center

Intended audience
Network designers, administrators, network and systems engineers, data center engineers, technical architects, Cisco integrators, partners and IT managers.

Prerequisites

Basic knowledge of Ethernet/TCP-IP networking, SAN, Fibre Channel, Cisco data center architecture, server design, and virtualization technologies such as VMware.

Practical details

Teaching methods

Training in French. Official course material in English. Training duration: 5 days in class and 3 days self-study(*).

Course schedule

1 **Official program**

- Implement data center switching protocols*.
- Implement first-hop redundancy protocols (FHRP)*.
- Implement routing in a data center environment*.
- Implement multicast in data centers*.
- Implement overlay protocols for the data center.
- Implement network infrastructure security*.
- Introduce Cisco ACI (Application-Centric Infrastructure) architecture.
- Describe Cisco ACI components and VMM domain integration.
- Describe packet routing in the data center network*.
- Introduce Cisco cloud services and deployment models.
- Describe data center* management, maintenance and network operations.
- Explain Cisco* network assurance concepts.
- Implement a Fibre Channel infrastructure.
- Implement data center storage services.
- Implement a unified FCoE infrastructure.
- Implement storage infrastructure security*.
- Describe the maintenance and operation of the storage infrastructure*.
- Describe Cisco UCS* server formats.
- Implement network connectivity for Cisco UCS.
- Implement Cisco UCS server abstraction.
- Implement SAN connectivity for Cisco UCS.
- Implement security in the Unified Computing environment.
- Introduction to Cisco HyperFlex systems*.
- Describe the management, maintenance and operations of Unified Computing*.
- Implement Cisco automation and scripting tools for the data center*.
- Present Cisco's integration with automation and orchestration platforms.
- Describe Cisco automation and orchestration technologies for the data center*.

② Official practical work

- Configure VXLAN (Virtual Extensible LAN).
- Explore the Cisco ACI fabric.
- Implement Cisco ACI access policies and out-of-band management.
- Implement Cisco ACI tenant policies.
- Integrate Cisco ACI with VMware.
- Configure Fibre Channel.
- Configure device aliases.
- Configure zoning.
- Configure NPV (N-Port Virtualization) mode.
- Provision a Cisco UCS Fabric Interconnect cluster.
- Configure server and uplink ports.
- Configure VLANs.
- Create a Cisco UCS server profile with hardware credentials.
- Configure basic identity pools.
- Create a Cisco UCS service profile using pools.
- Configure an iSCSI (Internet Small Computer Systems Interface) service profile.
- Configure Cisco UCS Manager for authentication via Microsoft Active Directory.
- Configure Cisco Nexus switches with Ansible.
- Programming a Cisco Nexus switch with Python.
- Automate Cisco ACI (Application-Centric Infrastructure) configuration.

Options

Certification : 450 € HT

To obtain Cisco Certified Network Professional Data Center (CCNP Data Center) certification, you must pass exam 350-601 DCCOR, as well as one of the following exams (your choice): 300-610 DCID, 300-615 DCIT, 300-620 DCACI and 300-625 DCSAN.

[Comment passer votre examen ?](#)

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

Dates and locations

REMOTE CLASS
2026 : 8 June, 23 Nov.