

Why CCNP Data Center Professional Certifications ?

Scale the capabilities of the network with CCNP Data Center.

The creation of enterprise-sized data requires professionals who can implement effective solutions in enterprise-class data centers.

A CCNP Data Center certification from Cisco is proof that you have the skills necessary to run an effective data center.

Audience Profile :

- Data center engineers
- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Consulting systems engineers
- Technical solutions architects
- Server administrators
- Network managers
- Cisco integrators or partners

Prerequisites:

- Implementing and Administering Cisco Networking Technologies (CCNA®)
- Understanding Cisco Data Center Foundations (DCFNDU)
- Implementing Cisco Data Center Core Technologies (DCCOR)



Course Overview:

- Create an effective Data Center
- The creation of enterprise-sized data requires professionals who can implement effective solutions in enterprise-class data centers.
- A CCNP Data Center certification from Cisco is proof that you have the skills necessary to run an effective data center.
- Test your knowledge of the implementation of core data center technologies including network, compute, storage network, automation, and security on the DCCOR exam and show off your specialty with a concentration exam of your choice. Pass both exams to earn your certification.
- Achieving CCNP Data Center certification proves your skills with data center solutions. To earn CCNP Data Center certification, you pass two exams: one that covers core data center technologies and one concentration exam of your choice, so you can customize your certification to your technical area of focus.

In this Learning path

1. **CCNP Data Center – Designing Infrastructure DCID**
2. **CCNP Data Center – Core Technologies DCCOR 350-601**
3. **CCNP Data Center – Application Centric Infrastructure DCACI**
4. **CCNP Data Center DCSAN: Cisco Storage Area Networking DCMDS**
5. **CCNP Data Center – Troubleshooting Infrastructure DCIT**

CCNP Data Center – Designing Infrastructure DCID Outline:

- Describing High Availability on Layer 2
- Designing Layer 3 Connectivity
- Designing Data Center Topologies
- Designing Data Center Interconnects with Cisco OTV
- Describing Locator/ID Separation Protocol
- Describing VXLAN Overlay Networks
- Describing Hardware and Device Virtualization
- Describing Cisco FEX Options
- Describing Basic Data Center Security
- Describing Advanced Data Center Security
- Describing Management and Orchestration
- Describing Storage and RAID Options
- Describing Fibre Channel Concepts
- Describing Fibre Channel Topologies
- Describing Cisco UCS Servers and Use Cases

CCNP Data Center – Core Technologies DCCOR 350-601 Outline:

- Implementing Data Center Switching Protocols
- Implementing First-Hop Redundancy Protocols
- Implementing Routing in Data Center
- Implementing Multicast in Data Center
- Implementing Data Center Overlay Protocols
- Implementing Network Infrastructure Security
- Describing Cisco Application-Centric Infrastructure
- Describing Cisco ACI Building Blocks and VMM Domain Integration
- Describing Packet Flow in Data Center Network
- Describing Cisco Cloud Service and Deployment Models
- Describing Data Center Network Infrastructure Management, Maintenance, and Operations
- Explaining Cisco Network Assurance Concepts
- Implementing Fibre Channel Fabric
- Implementing Storage Infrastructure Services
- Implementing FCoE Unified Fabric
- Implementing Storage Infrastructure Security
- Describing Data Center Storage Infrastructure Maintenance and Operations
- Describing Cisco UCS Server Form Factors
- Implementing Cisco Unified Computing Network Connectivity
- Implementing Cisco Unified Computing Server Abstraction
- Implementing Cisco Unified Computing SAN Connectivity
- Implementing Unified Computing Security
- Introducing Cisco HyperFlex Systems
- Describing Data Center Unified Computing Management, Maintenance, and Operations
- Implementing Cisco Data Center Automation and Scripting Tools
- Describing Cisco Integration with Automation and Orchestration Software Platforms
- Describing Cisco Data Center Automation and Orchestration Technologies

Training Solutions:

√ Offline Classroom Instructor-Led Training in our labs or onsite Locations.

√ Virtual Instructor-Led Training Via Virtual Video Conferencing Tools.

Why Learners Prefer CLS as their Training Services provider ?

■ Premium Training Services Accredited from Global Technology Vendors.

■ Best Rated Experts & Certified Trainers in Egypt.

■ Official Training Hours, Practice Labs, Hands-on Learning.

■ CLS Training Classrooms are designed with High Edge PCs and Training Facilities.

■ Return on Training Investment is Guaranteed to boost performance.



CCNP Data Center – Application Centric Infrastructure DCACI Outline:

- Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
- Describing Cisco ACI Policy Model Logical Constructs
- Describing Cisco ACI Basic Packet Forwarding
- Introducing External Network Connectivity
- Introducing VMM Integration
- Describing Layer 4 to Layer 7 Integrations
- Explaining Cisco ACI Management

CCNP Data Center DCSAN: Cisco Storage Area Networking DCMDS Outline:

- Describing Cisco MDS Platform
- Describing Key Product Features
- Describing New Product Features
- Deploying Cisco MDS Features
- Troubleshooting Common Cisco MDS Issues

CCNP Data Center – Troubleshooting Infrastructure DCIT Outline:

- Describing the Troubleshooting Process
- Understanding CLI Troubleshooting Tools
- Troubleshooting VLANs and PVLANS
- Troubleshooting Port Channels and Virtual Port Channels
- Troubleshooting Cisco OTV
- Troubleshooting VXLAN
- Troubleshooting Routing and High-Availability Protocols
- Troubleshooting Platform-Specific Issues
- Troubleshooting Fibre Channel Interfaces
- Troubleshooting Fibre Channel Fabric Services
- Troubleshooting NPV Mode
- Troubleshooting Cisco UCS Configuration
- Troubleshooting Cisco UCS B-Series Servers
- Troubleshooting Cisco UCS B-Series LAN and SAN Connectivity
- Troubleshooting Cisco UCS C-Series Servers
- Troubleshooting Cisco UCS C-Series and Cisco UCS Manager Integration
- Exploring the Tools and Methodologies for Troubleshooting Cisco ACI
- Troubleshoot Automation and Scripting Tools
- Troubleshooting Programmability

