

10 Days

CISCO CCNA Data Center

The Cisco CCNA Center Certification provides high-end data center solutions to professionals to bring about business agility and operational mobility. The Data Center Certifications are a great boost to your career and intensify the value of your data center network.

Through this training, Cisco provides a comprehensive curriculum to design, implement and maintain the prominent zones of data center networks.

The CCNA Data Center Certification is achieved through the following exams & training:

1. Introducing Cisco Data Center Networking (DCICN) v6.0
2. Introducing Cisco Data Center Technologies (DCICT) v6.0

Course Details

Course Outline

1. Introducing Cisco Data Center Networking (DCICN) v6.0

Module 1: Data Center Physical Infrastructure

- Describing different types of cabling, uses, and limitations
- Describing different types of transceivers, uses, and limitations
- Identifying physical components of a server and perform basic troubleshooting
- Identifying physical port roles
- Describing power redundancy modes

Module 2: Basic Data Center Networking Concepts

- Comparing and contrasting the OSI and the TCP/IP models
- Describing classic Ethernet fundamentals
- Describing switching concepts and perform basic configuration

Module 3: Advanced Data Center Networking Concepts

- Understanding the basic routing operations

- Comparing and contrasting the First Hop Redundancy Protocols
- Comparing and contrasting common data center network architectures
- Describing the use of access control lists to perform basic traffic filtering
- Describing the basic concepts and components of authentication, authorization, and accounting

Module 4: Basic Data Center Storage

- Differentiating between file and block-based storage protocols
- Describing the roles of FC/FCoE port types
- Describing the purpose of a VSAN
- Describing the addressing model of block-based storage protocols

Module 5: Advanced Data Center Storage

- Describing FCoE concepts and operations
- Describing Node Port Virtualization
- Describing zone types and their uses
- Verifying the communication between the initiator and target

2. Introducing Cisco Data Center Technologies (DCICT) v6.0

Module 1: Unified Computing

- Describing common server types and connectivity found in a data center
- Describing the physical components of the Cisco UCS
- Describing the concepts and benefits of Cisco UCS hardware abstraction
- Performing basic Cisco UCS configuration
- Describing server virtualization concepts and benefits

Module 2: Network Virtualization

- Describing the components and operations of Cisco virtual switches
- Describing the concepts of overlays
- Describing the benefits and perform simple troubleshooting of VDC STP
- Comparing and contrast the default and management VRFs
- Differentiating between the data, control, and management planes

Module 3: Cisco Data Center Networking Technologies

- Describing, configuring, and verifying FEX connectivity
- Describing, configuring, and verifying basic vPC features
- Describing, configuring, and verifying FabricPath
- Describing, configuring, and verifying unified switch ports
- Describing the features and benefits of Unified Fabric

- Describe and explain the use of role-based access control within the data center infrastructure

Module 4: Automation and Orchestration

- Explaining the purpose and value of using APIs
- Describing the basic concepts of cloud computing
- Describing the basic functions of a Cisco UCS Director
- Interpreting and troubleshooting a Cisco UCS Director workflow

Module 5: Application Centric Infrastructure

- Describing the architecture of an ACI environment
- Describing the fabric discovery process
- Describing the policy-driven, multi-tier application deployment model and its benefits
- Describe the ACI logical model

Who Should Attend

- Channel Partner / Reseller
- Customer
- Employee

Pre Requisite

No prerequisites

Exams

DCICN v6.0 200-150 & DCICT v6.0 200-155 [200-150 & 200-155]

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