

Introducing Cisco Data Center Networking (DCICN)

Duration 5 Days

COURSE CONTENT

Introducing Cisco Data Center Networking (DCICN) v6.2 prepares students for the Cisco CCNA® Data Center certification and for associate-level data center roles. The course covers foundational knowledge, skills, and technologies, including data center networking concepts, data center storage networking, and data center physical infrastructure. The training provided in this course is focused on data center basic operations covering the topics needed for today's demanding associate-level positions.

Upon completion of this course, you will be able to:

- Describe the OSI and TCP/IP models
- Describe the packet delivery process
- Compare and contrast TCP/IP with the OSI model
- Examine the Cisco Data Center network architectures, the 2- and the 3-tier network design, and the spine/leaf network design
- Describe Cisco Nexus products and basic functionalities and tools of Cisco NX-OS
- Describe VLANs and VSANS
- Describe issues with STP
- Describe the routing process on Nexus switches
- Describe Layer 3 first hop redundancy
- Describe and configure user security features
- Describe ACL object groups
- Describe storage connectivity options in the Data Center
- Describe Fibre Channel storage networking, zone types and their uses
- Describe data center Ethernet enhancements that provide a lossless fabric
- Describe the Cisco UCS physical connectivity for a Fabric Interconnect cluster
- Describe the Cisco UCS Manager interfaces and components of a Cisco UCS server

COURSE OUTLINE

- **Module 1:** Network Protocols and Host-to-Host Communication
- **Module 2:** Basic Data Center Networking Concepts
- **Module 3:** Advanced Data Center Networking Concepts
- **Module 4:** Basic Data Center Storage
- **Module 5:** Advanced Data Center Storage
- **Module 6:** Cisco UCS Architecture

PREREQUISITES

It is recommended that a learner has the following knowledge and skills before attending this course:

- Good understanding of networking protocols
- Good understanding of the VMware environment
- Basic computer literacy
- Basic knowledge of Microsoft Windows operating systems
- Basic Internet usage skills

Who Should Attend

- Data Center Engineer
- Network Administrator
- Network Engineer
- System Administrator
- Systems Engineer
- Network Designer
- Consulting Systems Engineer
- Technical Solutions Architect