Implementing Cisco Data Center Infrastructure (DCII)

Duration: **5 days**

Who should attend?

1. **Network Designer**
2. **Network Administrator**
3. **Network Engineer**
4. **Systems Engineer**
5. **Consulting Systems Engineer**
6. **Technical Solutions Architect**
7. **Cisco Integrators/Partners**

Prerequisites

Students considered for this training should have attended the following classes or obtained equivalent level of knowledge:

1. **Introducing Cisco Data Center Networking (DCICN)**
2. **Introducing Cisco Data Center Technologies (DCICT)**
3. **Interconnecting Cisco Network Devices: Accelerated (CCNAX) or Interconnecting Cisco Network Devices Part 1 (ICND1) and Interconnecting Cisco Network Devices Part 2 (ICND2)**

The knowledge and skills that a learner should have before attending this course:

1. **Describe data center networking concepts**
2. **Describe data center storage concepts**
3. **Describe data center virtualization**
4. **Describe Cisco Unified Computing System**
5. **Describe data center automation and orchestration with the focus on Cisco ACI and UCS Director**
6. **Identify products in the Cisco Data Center Nexus and MDS families**
7. **Describe network fundamentals and build simple LANs, including switching and routing**

Course Objectives

The goal of the course is to develop competency in learners to implement data center components such as Cisco Nexus and MDS switches as well as the Cisco Nexus Fabric Extenders. Focus of this course is on understanding and implementing LAN and SAN switching technologies, device management and monitoring.

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

1. Describe data center networking concepts
2. Describe data center storage concepts
3. Describe data center virtualization
4. Describe Cisco Unified Computing System (Cisco UCS)
5. Describe data center automation and orchestration with the focus on Cisco ACI and Cisco UCS Director
6. Identify products in the Cisco Data Center Nexus and Cisco MDS families
7. Describe network fundamentals and build simple LANs, including switching and routing

Follow On Courses

1. **Designing Cisco Data Center Infrastructure** (DCID)
2. **Troubleshooting Cisco Data Center Infrastructure** (DCIT)
3. **Implementing Cisco Data Center Unified Computing** (DCUCI)
4. **Implementing Cisco Data Center Virtualization and Automation** (DCVAI)

Course Content

The Implementing Cisco Data Center Infrastructure (DCII) v6.2 course is designed to help students prepare for the Cisco CCNP Data Center certification and for professional-level data center roles. The focus of this skills-building course is implementation of LANs, SANs, and data center unified fabric using Cisco MDS switches, Cisco Nexus switches, and Cisco Nexus 2000 Series Fabric Extenders (FEXs). The course provides rich hands-on experience with implementing Cisco data center infrastructure.

You'll master the professional-level skills and technologies needed to implement Cisco data center infrastructure, including key protocols, routing and switching protocols, maintenance, management, operations, security, and storage.