Implementing Cisco Data Center Infrastructure - On Demand (DCII v6.2)

Modality: On Demand

Duration: 40 Hours

CLC: 15 Units

About the course:

In this course, students will gain in-depth knowledge of Cisco Data Center Infrastructure implementation. The Cisco partners approved course consists of modules that comprehensively discuss the Data Center protocols. Students will learn to configure Spanning Tree protocol, different port channels, implementation of LISP, and Cisco FabricPath. The course also includes data center infrastructure security and information about storage fabric. The labs in this course help in maintaining, implementation and operate of Cisco data center infrastructure.

Furthermore, students who are preparing for the Cisco Exam can make the most out of this course in passing the exam.

Course Outline:

Module 1: Data Center Protocols

- Configuring Spanning Tree Protocol
- Configuring Port Channels
- Configuring Fabric Extenders
- Implementing Cisco FabricPath
- Understanding Cisco Overlay Transport Virtualization
- Implementing VXLAN
- Implementing LISP

Module 2: Layer 3 Switching Features in the Data Center

- Configuring First-Hop Redundancy
- Configuring Routing
- Configuring IP Multicast

Module 3: Data Center Infrastructure Security

- Configuring User Management
- Configuring System Security Features

Module 4: Data Center Infrastructure Storage Fabric

- Basic Fibre Channel Configuration

- Managing Domains
- Implementing Port Security and Fabric Binding

Module 5: FCoE Unified Fabric

- Describing FCoE
- Implementing FCoE

Module 6: Data Center Infrastructure Storage Services

- Configuring Distributed Device Aliases
- Implementing Zoning
- Configuring NPIV and NPV
- Configuring Fibre Channel Over IP

Module 7: Data Center Infrastructure Maintenance, Management, and Operations

- Configuring System Management
- Configuring Infrastructure Monitoring

Labs

- Lab 1: Configure Layer 2 Switching
- Lab 2: Configure Port Channels
- Lab 3: Configure FEX
- Lab 4: Configure Cisco FabricPath
- Lab 5: Configure OTV
- Lab 6: Configure VXLAN
- Lab 7: Configure VRRP
- Lab 8: Configure OSPF
- Lab 9: Configure User Management Security Features
- Lab 10: Configure System Security Features
- Lab 11: Configure Fibre Channel
- Lab 12: Manage Domains and Configure Persistent FCIDs
- Lab 13: Configure Fabric Binding and Port Security
- Lab 14: Configure FCoE
- Lab 15: Configure Device Aliases
- Lab 16: Configure Zoning
- Lab 17: Configure NPV
- Lab 18: Configure System Management
- Lab 19: Implement Infrastructure Monitoring