

# **Designing Cisco Data Center Infrastructure (CS-DCID v6.0)**

**Modality: Virtual Classroom**

**Duration: 3 Days**

**CLC: 31 Units**

## **.About the course:**

The course is intended to assist understudies with getting ready for the certification of Cisco CCNP® Data Center and for the role of a proficient-level data center. The course incorporates information for planning data centers with Cisco technologies and components. It also covers network designs with routing protocols and Layer 2, Layer 3, and virtualization innovations, and the data center interconnects structure alternatives. Additionally secured are gadget virtualization advancements, for example, network function virtualization and virtual data centers with virtual appliances, including virtual firewalls, virtual switches, and virtual routers. The design of SAN and storage are covered, with a clarification of Cisco Unified Fabric and Fiber Channel networks. This course additionally helps in the groundwork for Cisco: 300-160 DCID test.

This course is a piece of the below Boot Camps:

CS-CCNP Data Center v6.0, CS-CCNP-DC v6.0: CS-CCNP-DC v6.0 (CCNP - Cisco Certified Network Professional Data Center Boot Camp v6.0)

## **Salary Estimate:**

The normal pay for a Cisco Certified Network Engineer is \$77,484 annually.

## **Course Objectives:**

After you complete this course, you will be capable of:

1. Describe Layer 3 forwarding and Layer 2 switching in a data center, containing rack and cabling design for the aggregation, access, and core layers.
2. Design Cisco FabricPath, vPC, LISP, and OTV in customer situations and define options for management in the LAN.
3. Describe FEX technologies and hardware virtualization, discuss Cisco Virtual Application Container Services for IaaS and data center security threats, and describe automation and management options for the infrastructure of a data center.
4. Describe RAID and storage options, define the Fibre Channel architecture and concept, and design FCoE networks and Fibre Channel, along with management options
5. Describe the UCS M-Series, C-Series, and B-Series servers, with the options of adapter and connectivity. Compare the NPV and EHV modes of network operations. Distinguish and explain among the management options and system integrated stack solutions for the domains of UCS.
6. Design the parameters of resource for the domain of UCS and design the resource policies and pools used in UCS service templates and profiles.

## Targeted Audience:

This course is designed for:

1. Customers
2. Channel Partners
3. Employees
4. Senior Network Engineer
5. Entry-level to experienced Network Administrator
6. Senior Technical Solutions Architect
7. Presales Engineer
8. Data Center Administrator
9. Design Engineer
10. Senior Systems Engineer

## Prerequisites:

It is Recommended that a student has the below skills and knowledge before appearing this course:

1. Implement networking of data center (SAN and LAN)

2. Describe storage of data center
3. Implement virtualization of data center
4. Implement Unified Computing System of Cisco
5. Implement data center orchestration and automation with the focus on UCS and ACI Director
6. Describe products in the families of Cisco Data Center MDS and Nexus

## **Recommended prerequisite courses:**

- Implementing Cisco Data Center Automation and Virtualization v6.0 (CS-DCVAI v6.0)
- Data Center Unified Computing System v1.x Administration (DCUCA)

## **Course Outline:**

- **Module 1: Data Center Network Connectivity Design**
- **Module 2: Data Center Infrastructure Design**
- **Module 3: Data Center Storage Network Design**
- **Module 4: Data Center Compute Connectivity Design**
- **Module 5: Data Center Compute Resource Parameters Design**