

Designing Cisco Data Center Network Infrastructures v2.0

Course Code: **DCNID**

Duration: 5 Days

Vendor

Cisco

Area of Technology

Data Center

Course Level

N/A

Course Description

This course enables students to create a Data Center network design that optimizes availability, scalability, performance, and security, using the Cisco Nexus 7010, Cisco Nexus 5000, the Catalyst 6500 and 4948, the Catalyst Blade Modules - FWSM, IDSM/IPSM, NAM, ACESM and the ACE Appliance thus enabling customers to make a more effective use of the data center network devices.

Target Audience

This course is designed for individuals working in the Data Center field who are looking to add more advanced concepts to their knowledge which can then be implemented when designing Data Center solutions.

Objectives

Describe the Data Center architecture for non-stop operation

Describe the hardware and software architecture of the Cisco Nexus 7010 Switch

Describe the Nexus 5000 hardware and software features and position it in the converged Data Center network

Explain the Data Center network design strategy at component, network, and architecture levels

Explain Data Center architecture strategy

Describe Data Center topologies and the services used

Prerequisites

Attendees should have the following skills:

CCDA or DESGN

Securing Cisco Network Devices (SND)

Security Solutions for Systems Engineers (SSSE)

Knowledge of fundamental data center networking components and terminology

Course Outline

Data Center Design Models

- Data Center Business Objectives
- Data Center Networking Components: Cisco Platforms and Modules
- Data Center Environmental Requirements

Cisco Nexus 7010 Switch

- Hardware Architecture
- Software Architecture
- Continual Availability
- Network Management
- Security Overview
- QoS Implementation
- Positioning in the Data Center

Cisco Nexus 5000 Series Switch

- Fibre Channel over Ethernet
- Nexus 5000 Series Overview

Data Center Design Models

- Data Center Design Overview
- Data Center Application Design

Data Center Design Strategy

- Data Center Strategy

Data Center Network Design

- Data Center Network Design

Dates & Locations

Certifications

Related Courses