

## Cisco Certified Network Associate Data Center (CCNA Data Center)



SII-396 10 Days ( Hours)

### Description

CCNA DATA CENTER training provides participants with the skills and knowledge necessary to address the three primary technologies used in Cisco Data Center

### Who is this training for ?

#### For whom

Network Designers Network Administrators Network Engineers - Systems Engineers Data Center Engineers Systems Consulting Engineers Technical Solution Architects Field Engineers Cisco Integrators and Partners Server Administrators Network Managers

#### Prerequisites

Familiarity with Ethernet and TCP/IP networks Familiarity with SANs Familiarity with the Fiber Channel protocol The ability to identify Cisco Data Center Nexus and Cisco MDS family products

### Training objectives

- To respond to all the concerns generated by the weakness of Data Center infrastructures
- Any renovation or new development with the main objectives of sustainability/availability and the reduction of increasingly costly energy consumption
- Skills relating to Data Center infrastructures / its urbanization and the pooling of the different systems implemented as well as their operation

### Training program

Module 1

- Creating a simple network
- Understand network functions
- Understand the Host-to-Host communications model
- Describe the Ethernet connections
- Describe Ethernet communications standards
- Describe OSI network layer addressing
- Describe the TCP/IP Transport layer
- Describe the packet delivery process

## Module 2

- Implementing a switched network
- Describe switching
- Describe the packet delivery process
- Describe Cisco NX software -OS
- How Cisco NX-OS Works
- Implement VLANs and Trunks
- Create a Redundant Switched Topology

## Module 3

- Describe the IP network addressing scheme
- Transition to Ipv6

## Module 4

- Host-to-Host packet delivery
- Explore the routing process on Cisco Nexus switches
- Explore the routing protocols on Cisco Nexus switches
- Explore Access Control Lists on Cisco Nexus Switches