

---

## Introducing Cisco Data Center Networking

**Duration: 4 Days**    **Course Code: DCICN**

---

### Overview:

This new associate level course has been designed to introduce delegates to the three primary technologies that are used in the Cisco Data Center. The introductory level of knowledge that is taught in these courses is aimed at individuals that will be performing only the more basic configuration tasks. The labs will focus on viewing configurations, as opposed to making configuration changes or creating new topologies.

---

### Target Audience:

This course is designed for: Engineers that will be operating in a Data Center environment.

---

### Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
    - Describe how a network works
    - Configure, verify, and troubleshoot a switch with VLANs and interswitch communications
    - Implement an IP addressing scheme and IP services to meet network requirements
    - Configure, verify, and troubleshoot routing operations on Cisco Nexus switches
- 

### Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Basic Computer Literacy
- Basic Knowledge of Microsoft Windows Operating System
- Basic Internet Usage Skills

### Testing and Certification

Recommended preparation for:

- 
- 

### Follow-on-Courses:

- DCICT - Introducing Cisco Data Center Technologies
-

## Content:

### Simple Network Design

- Understanding the Functions of Networking
- Understanding the Host-to-Host Communications Model
- Describing Ethernet Connections
- Describing Ethernet Communications Standards
- Describing OSI Network Layer Addressing
- Describing the TCP/IP Transport Layer
- Describing the Packet Delivery Process

### Switched Network Implementation

- Describing Switching
- Describing the Packet Delivery Process
- Describing Cisco NX-OS Software
- Operating Cisco NX-OS Software
- Implementing VLANs and Trunks
- Building a Redundant Switched Topology

### IP Addressing

- Describing an IP Addressing Scheme
- Transitioning to IPv6

### Routing on the Cisco Nexus Switch

- Exploring the Packet Delivery Process
- Exploring the Routing Process on Cisco Nexus Switches
- Exploring Routing Protocols on Cisco Nexus Switches
- Exploring ACLs on Cisco Nexus Switches

---

## Further Information:

For More information, or to book your course, please call us on +254 713 027 191

[training@clclearningafrica.com](mailto:training@clclearningafrica.com)

[www.clclearningafrica.com](http://www.clclearningafrica.com)

Computer Learning Centre 2nd Floor Museum Hill Centre, Muthithi Road, Westlands, Nairobi, Kenya