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# Understanding Cisco Data Center Foundations (DCFNDU) v2.0

***WHERE GREAT TRAINING  
HAPPENS EVERYDAY!***

## Understanding Cisco Data Center Foundations (DCFNDU) v2.0

### Course Duration

5 Days

### Course Price

\$4,595.00

44 CLCs

### Methods of Delivery

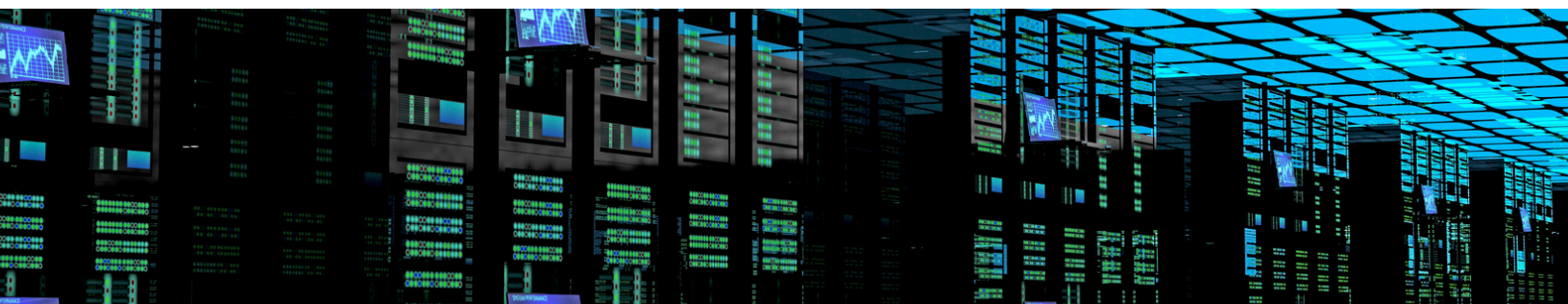
In-Person ILT

Virtual ILT

Onsite ILT

### About this Class

The Understanding Cisco Data Center Foundations (DCFNDU) training helps you prepare for entry-level data center roles. In this training, you will learn the foundational knowledge and skills you need to configure Cisco® data center technologies, including networking, virtualization, storage area networking, and unified computing. You will get an introduction to Cisco Application Centric Infrastructure (Cisco ACI), automation and cloud computing. You will get hands-on experience with configuring features on Cisco Nexus Operating System (Cisco NX-OS) and Cisco Unified Computing System (Cisco UCS). This training does not lead directly to a certification exam, but it does cover foundational knowledge that can help you prepare for several Cisco Certified Network Professional (CCNP) and other professional-level data center trainings and exams.



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### How you will benefit

This class will help you:

- Prepare for entry-level job roles in the high-demand area of data center environments
- Prepare for trainings that support the CCNP Data Center certification exams
- Gain knowledge and hands-on skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software
- Earn 25 CE credits toward recertification

### Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

### Who Should Attend

The job roles best suited to the material in this course are:

- Data Center Designers
- Data Administrators
- Data Center Engineers
- Systems Engineers
- Technical Solutions Architects
- Network Architects
- Cisco Integrators and Partners
- Server Administrators
- Network Managers
- Storage Administrators
- Program Managers
- Project Managers

## Understanding Cisco Data Center Foundations (DCFNDU) v2.0

### Objectives

After taking this course, you should be able to:

- Describe the foundations of data center networking
- Describe Cisco Nexus products and explain the basic Cisco NX-OS functionalities and tools
- Describe Layer 3 first-hop redundancy
- Describe Ethernet port channels and vPCs
- Introduce switch virtualization
- Introduce machine virtualization
- Describe network virtualization
- Compare storage connectivity options in the data center
- Describe Fibre Channel communication between the initiator server and the target storage
- Describe Fibre Channel zone types and their uses
- Describe NPV and NPIV
- Describe data center Ethernet enhancements that provide a lossless fabric
- Describe FCoE
- Describe data center server connectivity
- Describe Cisco UCS Manager
- Describe the purpose and advantages of APIs
- Describe Cisco ACI
- Describe Nexus Dashboard
- Describe the basic concepts of cloud computing

### Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Good foundation of networking protocols
- Basic knowledge of computer virtualization
- Basic computer literacy
- Basic knowledge of computer operating systems
- Basic internet usage skills



## Understanding Cisco Data Center Foundations (DCFNDU) v2.0

### Course Outline

Module 1: Describing the Data Center Network Architectures

Module 2: Describing the Cisco Nexus Family and Cisco NX-OS Software

Module 3: Describing Layer 3 First-Hop Redundancy

Module 4: Describing Port Channels and vPCs

Module 5: Describing Switch Virtualization

Module 6: Describing Machine Virtualization

Module 7: Describing Network Virtualization

Module 8: Introducing Basic Data Center Storage Concepts

Module 9: Describing the Cisco MDS Family

Module 10: Describing Fibre Channel Communication Between the Initiator Server and the Target Storage

Module 11: Describing Fibre Channel Zone Types and Their Uses

Module 12: Describing Cisco NPV Mode and NPIV

Module 13: Describing FCoE

Module 14: Describing Cisco UCS and UCS-X Components

Module 15: Describing Cisco UCS Manager and Cisco Intersight

Module 16: Automating the Data Center

Module 17: Describing Cisco Nexus Dashboard

Module 18: Describing Cisco ACI

Module 19: Describing Cloud Computing

## Understanding Cisco Data Center Foundations (DCFNDU) v2.0

### Lab Outline

- Lab 1: Explore the Cisco NX-OS CLI
- Lab 2: Explore Topology Discovery
- Lab 3: Configure HSRP
- Lab 4: Configure vPCs
- Lab 5: Configure VRF
- Lab 6: Explore CoPP and Spanning Tree on Cisco Nexus Switches
- Lab 7: Install VMware ESXi and vCenter
- Lab 8: Configure VSANs
- Lab 9: Validate FLOGI and FCNS
- Lab 10: Configure Zoning
- Lab 11: Review Unified Ports on a Cisco Nexus Switch and Implement FCoE
- Lab 12: Explore the Cisco UCS Server Environment
- Lab 13: Configure a Cisco UCS Service Profile
- Lab 14: Configure Cisco NX-OS with APIs
- Lab 15: Explore the Cisco UCS Manager XML API Management Information Tree
- Lab 16: Explore Cisco ACI