

training code: DCFNDU / e-learning / EN

E-Learning - Understanding Cisco Data Center Foundations

Cisco - On Demand E-Learning

The Understanding Cisco Data Center Foundations (DCFNDU) course helps you prepare for entry-level data center roles.

In this course, you will learn the foundational knowledge and skills you need to configure Cisco data center technologies including: networking, virtualization, Storage Area Networking (SAN), and unified computing. You will get an introduction to Cisco Application Centric Infrastructure (Cisco ACI), automation and cloud computing. You will also receive hands-on experience configuring features on Cisco Nexus Operating System (Cisco NX-OS) and Cisco Unified Computing System (Cisco UCS).

Access Duration: 180 days

Continuing Education Credits: 30



Purpose of the training

- Data center administrators
- Data center engineers
- Systems engineers
- Server administrators
- Network managers
- Cisco integrators and partners
- Data center designers
- Technical solutions architects

- Network architects



Benefits of completing the training

This course will help you:

- Prepare for entry-level job roles in the high-demand area of data center environments
- Prepare for courses that support the Cisco Certified Network Professional 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



Exam description

Certification

Associated Certification: None

Associated Exam: None



Expected Listener Preparation

Before taking this course, you should have the following knowledge and skills:

- Good understanding of networking protocols
- Good understanding of the VMware environment
- Basic knowledge of Microsoft Windows operating systems

The recommended Cisco course that may help you meet these prerequisites is:

Implementing and Administering Cisco Solutions (CCNA)



Training Language

Language: English

Materials: English



Training Includes

- Labs
- Self-Paced Training
- Video Training

Duration

1 days / 1 hours

Training agenda

- 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 Cisco Fabric Extender (FEX) connectivity
- Describe Ethernet port channels and virtual port channels (vPCs)
- Introduce switch virtualization, machine virtualization, and 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 N-Port Virtualization (NPV) and N-Port Identifier Virtualization (NPIV)
- Describe data center Ethernet enhancements that provide a lossless fabric
- Describe Fibre Channel over Ethernet (FCoE)
- Describe data center server connectivity
- Describe Cisco UCS Manager
- Describe the purpose and advantages of APIs
- Describe Cisco ACI
- Describe the basic concepts of cloud computing