Understanding Cisco Data Center Foundations (DCFNDU)

Category: Infrastructure & IT Operations | **Vendor:** Cisco

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Certified Network Professional (CCNP) and other professional-level data center trainings and exams

Course Overview

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:

- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)
- Designing Cisco Data Center Infrastructure (DCID)
- Troubleshooting Cisco Data Center Infrastructure (DCIT)
- Implementing Cisco Application Centric Infrastructure (DCACI)
- Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX)

How You'll Benefit

This training 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

About This Course

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:

- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)
- Designing Cisco Data Center Infrastructure (DCID)
- Troubleshooting Cisco Data Center Infrastructure (DCIT)
- Implementing Cisco Application Centric Infrastructure (DCACI)
- Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX)

How You'll Benefit

This training 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

Who Should Attend

- 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

Prerequisites & Entry Requirements

General 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

In addition, CCNA-level knowledge is recommended as a prerequisite:

- Implementing and Administering Cisco Solutions (CCNA)

Learning Outcomes

Upon successful completion of this course, participants will 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

Detailed Course Outline

- Describing the Data Center Network Architectures
- Describing the Cisco Nexus Family and Cisco NX-OS Software
- Describing Layer 3 First-Hop Redundancy
- Describing Port Channels and vPCs
- Describing Switch Virtualization
- Describing Machine Virtualization
- Describing Network Virtualization
- Introducing Basic Data Center Storage Concepts

- Describing the Cisco MDS Family
- Describing Fibre Channel Communication Between the Initiator Server and the Target Storage
- Describing Fibre Channel Zone Types and Their Uses
- Describing Cisco NPV Mode and NPIV
- Describing FCoE
- Describing Cisco UCS and UCS-X Components
- Describing Cisco UCS Manager and Cisco Intersight
- Automating the Data Center
- Describing Cisco Nexus Dashboard
- Describing Cisco ACI
- Describing Cloud Computing

Skills You Will Learn:

- 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

Frequently Asked Questions

Q: What delivery options are available for Understanding Cisco Data Center Foundations (DCFNDU)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Understanding Cisco Data Center Foundations (DCFNDU) course helps prepare you for the Certified Network Professional (CCNP) and other professional-level data center trainings and exams certification path.

Q: How many CPD hours does this course provide?

The 5-day Understanding Cisco Data Center Foundations (DCFNDU) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Understanding Cisco Data Center Foundations (DCFNDU) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Understanding Cisco Data Center Foundations (DCFNDU)?

Yes, we provide corporate training, dedicated training, and closed classes for Understanding Cisco Data Center Foundations (DCFNDU). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Understanding Cisco Data Center Foundations, Cisco Professional Level Data Center - CCNP, DCFNDU

Q: Why choose Nexus Human for Understanding Cisco Data Center Foundations (DCFNDU)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Understanding Cisco Data Center Foundations (DCFNDU) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 19/10/2026.