



CISCO TRAINING

Understanding Cisco Data Center Foundations

Master Cisco Data Center fundamentals. Learn to navigate the core technologies powering modern data centers.

DURATION

2 hours

LEVEL

Foundation

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This "Understanding Cisco Data Center Foundations" course provides a crucial introductory overview for anyone looking to enter or advance within the modern data center landscape. Over 2 hours, you'll explore the fundamental components and architectural principles that underpin contemporary data centers, with a specific focus on Cisco's pivotal role and innovative technologies. This foundational knowledge is essential for grasping how compute, storage, and networking converge to create efficient, scalable, and resilient IT infrastructures.

Duration	2 hours
Level	Foundation
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Core Concepts of Modern Data Centers

- Definition and Purpose of a Data Center
- Evolution from Traditional to Cloud-Enabled Data Centers
- Key Pillars: Compute, Storage, Networking, Virtualization
- The Importance of Scalability, Availability, and Security

02 Module 2: Cisco's Data Center Networking Overview

- Introduction to Cisco Nexus Switching Platforms
- Understanding Unified Fabric Principles
- Core Network Topologies and Connectivity in Data Centers
- Data Center Interconnect (DCI) Fundamentals

03 Module 3: Cisco Unified Computing System (UCS) Fundamentals

- Introduction to Server Virtualization Concepts
- Cisco UCS Architecture and Components (Blade, Rack Servers, Fabric Interconnects)
- Benefits of UCS for Data Center Compute
- Converged Infrastructure Concepts

04 Module 4: Data Center Storage and Virtualization Essentials

- Introduction to Storage Area Networks (SAN) and Network Attached Storage (NAS)
- Storage Connectivity: Fibre Channel and iSCSI Basics
- Overview of Hypervisors (VMware, KVM, Hyper-V) and Virtual Machine Concepts
- Data Center Storage Solutions

05 Module 5: Introduction to Software-Defined Data Centers (SDDC)

- What is a Software-Defined Data Center?
- Concepts of Software-Defined Networking (SDN)
- High-Level Overview of Cisco ACI (Application Centric Infrastructure)
- Preparing for Advanced Data Center Technologies

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Data Center Technician**
- > **Network Operations Center (NOC) Analyst specializing in Data Center Environments**
- > **Entry-Level IT Infrastructure Support Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific foundational knowledge will I gain about Cisco's data center portfolio that can help me in an entry-level IT role?

This course provides you with a clear understanding of the core Cisco technologies used in modern data centers, including an introduction to Nexus switches for networking and UCS for unified computing. You'll learn the fundamental concepts behind these platforms, enabling you to confidently discuss basic data center architecture, identify key components, and understand their functions, which is crucial for entry-level support or operations roles.

Q: Is this course suitable for someone with absolutely no prior data center experience, or are there any recommended prerequisites to get the most out of it?

This course is specifically designed as a foundation, making it highly suitable for individuals with no prior data center experience. A basic understanding of general IT concepts, such as what a server, network, or storage device is, would be beneficial but is not strictly required. The course aims to build foundational knowledge from the ground up, providing a solid starting point for further specialization.

Q: How does 'Understanding Cisco Data Center Foundations' prepare me for more advanced Cisco data center certifications like CCNA Data Center or CCNP Data Center?

This foundational course serves as an excellent stepping stone for more advanced Cisco data center certifications. It introduces you to the essential terminology, architectural principles, and key Cisco product families (like Nexus and UCS) that are extensively covered in depth in certifications such as CCNA Data Center. By completing this course, you will have a conceptual framework that makes subsequent, more technical training much easier to absorb and apply.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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