

# Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID)

**Category:** Data Center

**Duration:** 40.00 hours (5 days)

**32.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The Designing Cisco Data Center Infrastructure (DCID) v7.0 course helps you master design and deployment options focused on Cisco® data center solutions and technologies across network, compute, virtualization, storage area networks, automation, and security. You will learn design practices for the Cisco Unified Computing System (Cisco UCS®) solution based on Cisco UCS B-Series and C-Series servers, Cisco UCS Manager, and Cisco Unified Fabric. You will also gain design experience with network management technologies including Cisco UCS Manager, Cisco Data Center Network Manager (DCNM), and Cisco UCS Director. This course helps you prepare to take the exam, Designing Cisco Data Center Infrastructure (300-610 DCID)

## About This Course

The Designing Cisco Data Center Infrastructure (DCID) v7.0 course helps you master design and deployment options focused on Cisco® data center solutions and technologies across network, compute, virtualization, storage area networks, automation, and security. You will learn design practices for the Cisco Unified Computing System (Cisco UCS®) solution based on Cisco UCS B-Series and C-Series servers, Cisco UCS Manager, and Cisco Unified Fabric. You will also gain design experience with network management technologies including Cisco UCS Manager, Cisco Data Center Network Manager (DCNM), and Cisco UCS Director.

This course helps you prepare to take the exam, Designing Cisco Data Center Infrastructure (300-610 DCID)

## Who Should Attend

---

IT professionals with five to eight years of experience in these roles:

Data center engineers

Network designers

Network administrators

Network engineers

Systems engineers

System administrator

Consulting systems engineers

Technical solutions architects

Server administrators

Network managers

Cisco integrators or partners

# Learning Outcomes

---

## **Upon successful completion of this course, participants will be able to:**

After taking this course, you should be able to:

Describe the Layer 2 and Layer 3 forwarding options and protocols used in a data center

Describe the rack design options, traffic patterns, and data center switching layer access, aggregation, and core

Describe the Cisco Overlay Transport Virtualization (OTV) technology that is used to interconnect data centers

Describe Locator/ID separation protocol

Design a solution that uses Virtual Extensible LAN (VXLAN) for traffic forwarding

Describe hardware redundancy options; how to virtualize the network, compute, and storage functions; and virtual networking in the data center

Describe solutions that use fabric extenders and compare Cisco Adapter Fabric Extender (FEX) with single root input/output virtualization (SR-IOV)

Describe security threats and solutions in the data center

Describe advanced data center security technologies and best practices

Describe device management and orchestration in the data center

Describe the storage options for compute function and different Redundant Array of Independent Disks (RAID) levels from a high-availability and performance perspective

Describe Fibre Channel concepts, topologies, architecture, and industry terms

Describe Fibre Channel over Ethernet (FCoE)

Describe security options in the storage network

Describe management and automation options for storage networking infrastructure

Describe Cisco UCS servers and use cases for various Cisco UCS platforms

Explain the connectivity options for fabric interconnects for southbound and northbound connections

Describe the hyperconverged solution and integrated systems

Describe the systemwide parameters for setting up a Cisco UCS domain

Describe role-based access control (RBAC) and integration with directory servers to control access rights on Cisco UCS Manager

Describe the pools that may be used in service profiles or service profile templates on Cisco UCS Manager

Describe the different policies in the service profile

Describe the Ethernet and Fibre Channel interface policies and additional network technologies

Describe the advantages of templates and the difference between initial and updated templates

Describe data center automation tools

## Additional Course Details

---

Nexus Humans Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

---

## **Q: What delivery options are available for Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID)?**

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: How many CPD hours does this course provide?**

The 5-day Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID) 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 Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID) 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 Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID)?**

Yes, we provide corporate training, dedicated training, and closed classes for Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID). 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: Why choose Nexus Human for Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID)?

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 Cisco Designing Cisco Data Center Infrastructure v7.0 (DCID) 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](mailto:info@nexushuman.com)

🌐 Website: [www.nexushuman.com](http://www.nexushuman.com)

☎ Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)