

Cisco 350-601 Exam Preparation 2026

Cisco 350-601 DCCOR 2026. Nexus, UCS, ACI, and data center core technologies for CCNP Data Center.

[IT Certifications](#) Instructor: Brian Mitchell • 5 sections • 46 lessons • 16.25h total

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About this course

Preparing for the Cisco 350-601 DCCOR exam can feel overwhelming with the vast amount of material to cover. This course breaks down the exam objectives into manageable, practical lessons that focus on what you will encounter in the test and in the data center.

You will learn how to configure and troubleshoot core data center technologies, including Nexus switches, UCS servers, and ACI. We will show you configuration guides, real case study analysis, and downloadable templates to practice with. The course includes video lessons, hands-on labs, and problem-solving sessions.

Course curriculum

Exam Foundations and Structure

- **Understanding the 350-601 DCCOR Exam Blueprint (12m)**
Learn the exact exam domains and weightings for 2026. We'll break down each section and show you how to prioritize your study time effectively.
- **Setting Up Your Lab Environment (18m)**
Step-by-step guide to building a cost-effective lab using EVE-NG or Cisco Modeling Labs. Includes downloadable topology templates.
- **Cisco Learning Credits and Resources (8m)**
How to access official Cisco documentation, learning maps, and practice questions. Tips for using Cisco's learning portal efficiently.
- **Creating Your 90-Day Study Plan (15m)**
Downloadable template for organizing your study schedule. We'll show you how to balance theory, labs, and practice exams.
- **Common Exam Pitfalls and How to Avoid Them (11m)**
Real student experiences and mistakes to watch for. Learn how to manage time during the exam and handle tricky questions.
- **Understanding Question Types and Scoring (9m)**
Breakdown of multiple-choice, drag-and-drop, and simulation questions. Strategies for each type and how points are allocated.
- **Building Your Personal Knowledge Base (14m)**
How to create effective notes and flashcards. Tools and methods for retaining complex data center concepts.
- **Introduction to Data Center Fundamentals (20m)**
Core concepts of modern data centers. We'll cover key terminology and architecture before diving into specific technologies.

Network Infrastructure and Nexus Switching

- **Nexus Switch Architecture Deep Dive (25m)**
Understand Nexus 9000, 7000, and 5000 series hardware. Learn about ASICs, line cards, and supervisor engines with real case studies.
- **VLAN and Trunk Configuration on Nexus (18m)**
Step-by-step lab for configuring VLANs, trunks, and allowed VLANs. Includes troubleshooting common issues.
- **Layer 2 Protocols: STP, VPC, and FEX (22m)**
Configure and verify Spanning Tree, Virtual Port Channel, and Fabric Extenders. Practical scenarios for each protocol.
- **Layer 3 Routing with OSPF and BGP (28m)**
Hands-on configuration of OSPFv2/v3 and BGP in the data center. Real-world routing design considerations.

- **Nexus VXLAN and EVPN Configuration (32m)**
Step-by-step guide to configuring VXLAN BGP EVPN. Includes downloadable configuration templates and verification commands.
- **Nexus Security Features and ACLs (16m)**
Implementing security policies, CoPP, and ACLs on Nexus switches. Problem-solving session for security configurations.
- **Nexus QoS for Data Center Traffic (20m)**
Configuring Quality of Service policies for storage and VM traffic. Real case study from a financial services data center.
- **Nexus Monitoring and Troubleshooting (24m)**
Using CLI tools, SPAN, and NetFlow for monitoring. Downloadable troubleshooting checklist for common issues.
- **Nexus Upgrade and Maintenance Procedures (17m)**
Step-by-step process for upgrading Nexus OS. Includes rollback procedures and maintenance windows planning.

Storage Networking and UCS

- **FC and FCoE Storage Fundamentals (19m)**
Understanding Fibre Channel and FCoE in the data center. Practical configuration examples and design patterns.
- **Cisco UCS Server Configuration (26m)**
Building service profiles, configuring BIOS, and managing UCS Manager. Real case study from a healthcare IT environment.
- **UCS Fabric Interconnects and Chassis (22m)**
Configuring UCS FIs, chassis discovery, and redundancy. Step-by-step lab for a multi-chassis setup.
- **Storage Area Network Integration (20m)**
Connecting UCS to SAN arrays. Includes MDS switch configuration and zoning best practices.
- **UCS Central and Multi-Domain Management (18m)**
Managing multiple UCS domains with UCS Central. Downloadable templates for policy-based management.
- **UCS Troubleshooting and Health Checks (21m)**
Using UCS Manager tools for diagnostics. Problem-solving session with common failure scenarios.
- **HyperFlex and UCS Integration (23m)**
Configuring HyperFlex clusters and integrating with UCS. Real deployment case study.
- **Storage Migration and Data Mobility (15m)**
Techniques for migrating workloads between UCS servers. Step-by-step guide with downtime minimization.

Automation and Programmability

- **Cisco DNA Center and Network Automation (24m)**
Using DNA Center for policy-based automation. Hands-on lab for device provisioning and compliance.

- **Python for Network Automation Basics (28m)**
Essential Python scripts for Nexus and UCS. Downloadable code templates and API integration examples.
- **Ansible for Data Center Configuration (30m)**
Building Ansible playbooks for Nexus and UCS. Real case study automating a data center deployment.
- **REST APIs and NETCONF/YANG (22m)**
Interacting with Cisco devices using APIs. Practical examples for configuration and monitoring.
- **Terraform for Infrastructure as Code (26m)**
Using Terraform with Cisco ACI and UCS. Step-by-step guide for declarative configuration management.
- **Git and Version Control for Network Configs (16m)**
Implementing Git workflows for network automation. Downloadable repository structure template.
- **CI/CD Pipelines for Network Changes (23m)**
Building automated testing and deployment pipelines. Real case study from a large enterprise.
- **Monitoring Automation with Python (19m)**
Creating automated health checks and alerts. Problem-solving session for common automation challenges.
- **Security in Network Automation (17m)**
Securing automation tools and scripts. Best practices for credential management and access control.
- **Automation Case Study: Data Center Refresh (32m)**
Complete walkthrough of automating a data center refresh project. Includes all scripts and templates.

ACI and Advanced Data Center

- **ACI Fabric Architecture and Design (27m)**
Understanding ACI leaf-spine topology and fabric discovery. Real design considerations for different scales.
- **ACI Policies and Contracts (25m)**
Step-by-step guide to configuring application policies and contracts. Downloadable policy templates.
- **ACI Integration with VMware and Kubernetes (29m)**
Connecting ACI to vSphere and Kubernetes. Real case study from a cloud-native application deployment.
- **ACI Multi-Site and Stretched Fabrics (23m)**
Configuring ACI for disaster recovery and multi-site deployments. Step-by-step lab for stretched fabrics.
- **ACI Troubleshooting and Operations (26m)**
Using ACI Toolkit and CLI for troubleshooting. Problem-solving session with common issues.
- **ACI Security and Microsegmentation (22m)**
Implementing security policies and microsegmentation. Real case study from a financial institution.
- **ACI and Cloud Integration (20m)**
Connecting ACI to public clouds like AWS and Azure. Step-by-step guide for hybrid deployments.
- **ACI Automation with REST API (24m)**
Automating ACI configurations using REST API. Downloadable scripts for common tasks.

- **ACI Upgrade and Migration Strategies (18m)**

Planning and executing ACI fabric upgrades. Includes rollback procedures and best practices.

- **ACI Performance Tuning and Optimization (21m)**

Optimizing ACI fabric performance for high-throughput applications. Real monitoring and tuning examples.

- **ACI Case Study: Enterprise Deployment (35m)**

Complete case study of an ACI deployment in a large enterprise. Includes design, implementation, and lessons learned.

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