

Cisco 300-625 2026 Exam Preparation

Step-by-step Cisco 300-625 DCIA exam prep. Hands-on labs, practice questions, and real case studies.

[IT Certifications](#) Instructor: Jason Miller • 5 sections • 45 lessons • 16.00h total

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About this course

This course helps you tackle the Cisco 300-625 exam. We will break down complex topics into manageable lessons, focusing on the practical skills you need for real scenarios.

You will learn how to configure and troubleshoot Cisco Data Center Infrastructure Automation, with hands-on labs, real case studies, and downloadable templates. The course includes video lessons, practice questions, and a final review to prepare you for exam day.

Course curriculum

Foundations and Exam Overview

- **Understanding the 300-625 Exam Structure (12m)**
Get a clear breakdown of the exam format, scoring, and key topics to focus on from day one.
- **Setting Up Your Lab Environment (18m)**
Step-by-step guide to configuring a virtual lab using Cisco VIRL or other tools for hands-on practice.
- **Core Concepts of Data Center Automation (15m)**
Learn the fundamental principles of automation in Cisco data centers and why they matter for the exam.
- **Key Terminology and Acronyms (8m)**
A quick reference guide to essential terms like ACI, NX-OS, and REST APIs to boost your confidence.
- **Mapping Exam Objectives to Real-World Tasks (22m)**
Connect exam topics to practical scenarios you'll encounter in network engineering roles.
- **Time Management for Study and Exam Day (10m)**
Strategies to allocate your study time effectively and avoid burnout before the test.
- **Using Official Cisco Resources (14m)**
How to leverage Cisco's documentation, learning portals, and practice exams for targeted prep.
- **Creating Your Personal Study Plan (16m)**
A downloadable template to organize your weekly goals and track progress toward certification.

Core Configuration and Automation

- **Configuring ACI Fabric Basics (25m)**
Hands-on lesson to set up Application Policy Infrastructure Controller and fabric nodes.
- **Implementing NX-OS Automation with Python (30m)**
Write and run Python scripts to automate NX-OS device configurations and save time.
- **Using REST APIs for Data Center Management (28m)**
Step-by-step guide to interact with Cisco APIs for configuration and monitoring tasks.
- **Automating Network Policies in ACI (22m)**
Learn how to define and apply network policies using the ACI GUI and CLI for consistent deployments.
- **Integrating Ansible with Cisco Devices (32m)**
Real case study on using Ansible playbooks to manage Cisco switches and routers efficiently.
- **Troubleshooting Common Automation Errors (18m)**
Problem-solving session to diagnose and fix issues in scripts and API calls.
- **Best Practices for Secure Automation (20m)**
How to ensure your automation workflows are secure and compliant with Cisco standards.
- **Configuring VXLAN and EVPN for Automation (26m)**
Practical steps to set up VXLAN with EVPN for scalable data center networks.
- **Lab: Building a Basic ACI Policy (35m)**
Hands-on lab to create a tenant, application profile, and endpoint group from scratch.

Advanced Automation Techniques

- **Orchestrating Multi-Vendor Environments (24m)**
Learn how to automate across Cisco and non-Cisco devices using standard protocols.
- **Using ServiceNow for Network Automation (19m)**
Integrate ServiceNow with Cisco tools for ticketing and automated incident response.
- **Advanced Python Scripting for DCIA (27m)**
Build complex scripts that handle error handling and data parsing for exam scenarios.
- **Automating Security Policies in ACI (23m)**
Step-by-step guide to implement security groups and filters using automation tools.
- **Real Case Study: Automating a Data Center Migration (33m)**
Analyze a real-world migration project and the automation strategies used to succeed.
- **Monitoring and Logging with Automation (21m)**
Set up automated monitoring and logging to proactively detect issues in your network.
- **Troubleshooting Advanced Automation Scenarios (29m)**
Deep dive into fixing complex problems with APIs, scripts, and device configurations.

Exam Scenarios and Practice

- **Simulating Exam Questions on ACI (15m)**
Practice answering multiple-choice and drag-and-drop questions on ACI topics.
- **Configuring Devices Under Time Pressure (20m)**
Timed lab exercises to build speed and accuracy for the exam's performance items.
- **Troubleshooting Exam-Style Scenarios (25m)**
Work through common troubleshooting questions with step-by-step solutions.
- **Using Command Line for Quick Configurations (12m)**
Master NX-OS CLI commands that appear frequently on the 300-625 exam.
- **Reviewing Automation Best Practices for Exams (18m)**
A checklist of dos and don'ts to avoid common mistakes in test scenarios.
- **Practice Test 1: Full-Length Mock Exam (40m)**
Take a simulated exam with questions covering all sections, followed by a review.
- **Practice Test 2: Focus on Weak Areas (35m)**
Targeted practice based on your progress, with explanations for each answer.
- **Analyzing Your Practice Test Results (16m)**
How to interpret scores and adjust your study plan for maximum improvement.
- **Final Review: Key Topics to Revisit (14m)**
A summary of high-priority areas to ensure you're fully prepared.

Implementation and Career Next Steps

- **Applying DCIA Skills in Your Current Job (22m)**
Real-world examples of how to use automation to improve efficiency in your role.
- **Building a Portfolio with Automation Projects (28m)**
Step-by-step guide to document and showcase your skills for employers.

- **Networking with Other Certified Professionals (15m)**
Tips on leveraging LinkedIn and communities to advance your career post-certification.
- **Preparing for the Cisco 300-625 Exam Day (12m)**
A checklist for exam day logistics, from registration to what to bring.
- **Post-Exam: What to Do After Passing (10m)**
Next steps for maintaining your certification and exploring advanced Cisco tracks.
- **Automating Real-World Network Upgrades (30m)**
Case study on using automation for seamless network upgrades with minimal downtime.
- **Integrating Automation with Cloud Services (26m)**
Learn how to extend DCIA skills to hybrid cloud environments like AWS and Azure.
- **Troubleshooting in Production Environments (24m)**
Problem-solving session focused on real production issues and automation fixes.
- **Continuous Learning: Beyond 300-625 (18m)**
Resources and courses to keep your skills sharp and pursue further Cisco certifications.
- **Creating a Personal Automation Toolkit (25m)**
Downloadable templates and scripts to build your own library of automation tools.
- **Final Q&A: Common Exam and Career Questions (20m)**
A wrap-up session addressing top questions from students and exam candidates.
- **Course Wrap-Up and Certification Celebration (8m)**
Congratulations and next steps, how to claim your badge and share your success.

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