

Automating Cisco Data Center Networking Solutions • DCNAUTO

DURATION: 5 DAYS

PRICE: USD 4395

CLCs: 44

CE: 43

COURSE CODE: DCNAUTO | **FORMAT:** Lecture & Lab

COURSE DESCRIPTION

The Automating Cisco Data Center Networking Solutions (DCNAUTO) training teaches you how to implement and optimize automation in Cisco data center environments. You will gain hands-on experience with Cisco Nexus platforms, programmability features, and modern automation tools used to streamline operations across switching, compute, and fabric controllers. The training covers foundational concepts in network programmability, then advances into day-zero provisioning, on-box automation using Bash, Python, and Guest Shell, and off-box automation with Cisco NX-API, NETCONF/RESTCONF, and YANG models. You will also explore Infrastructure as Code (IaC) workflows with Cisco Nexus Dashboard Fabric Controller (NDFC), Ansible, and Terraform, as well as network validation and testing with Cisco pyATS. Finally, you will learn how AI-driven operations enhance network automation and simplify lifecycle management.

This training prepares you for the 300-635 DCNAUTO v2.0 exam. If passed,

you earn the Cisco Certified Specialist - Data Center Networking Automation certification and satisfy the concentration exam requirements for the Cisco Certified Network Professional (CCNP) Data Center and Automation certifications.

This training also earns you 43 Continuing Education (CE) credits toward recertification.

PREREQUISITES

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Basic programming language concepts
- Basic understanding of virtualization and VMware
- Ability to use Linux and CLI tools, such as SSH and bash
- CCNP level data center knowledge
- Foundational understanding of Cisco ACI

These skills can be found in the following Cisco Learning Offerings:

Automating Cisco Data Center Networking Solutions • DCNAUTO

Implementing and Administering Cisco Solutions (CCNA)
Implementing and Operating Cisco Data Center Core Technologies (DCCOR)
Introducing Automation for Cisco Solutions (CSAU)

- Troubleshoot Infrastructure Automation
- Troubleshoot Container Workloads Connectivity
- AI-Assisted Coding
- AI Security Considerations
- AI Agent Integration

WHO SHOULD ATTEND

- Network Designers
- Systems Engineers
- Wireless Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Network Administrators
- Wireless Design Engineers
- Network Managers
- Site Reliability Engineers
- Deployment Engineers
- Sales Engineers
- Account Managers
- Program Managers
- Project Managers

Instructor Led Training

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COURSE OUTLINE

- Day-Zero Provisioning
- On-Box Automation with Cisco NX-OS
- Cisco Nexus Automation with NX-API CLI
- Cisco Nexus Programmability with NX-API REST
- Model-Driven Programmability on NX-OS
- IaC Tools
- IaC Lifecycle
- Cisco NX-OS Automation with IaC Tools
- Cisco ACI Automation with IaC Tools
- Cisco Nexus Dashboard Automation with IaC Tools
- Simulation of Data Center Topologies
- Network Change Validation with pyATS
- Model-Driven Telemetry Implementation