ITTcert
BY ORSYS

Course : Implementing Cisco Catalyst 9000 Series Switches (ENC9K) v4.0

Implementing Cisco Catalyst 9000 switches

Practical course - 3d - 21h00 - Ref. CLY
Price : 2630 € E.T.

With this training course, you'll master the architecture, features and positioning of Cisco Catalyst 9000 Series switches. You'll learn how to deploy and manage them efficiently using the CLI, Cisco DNA Center and the IOS-XE web interface. You'll also be introduced to key advanced features such as security, automation, cloud and many other elements essential to a modern network infrastructure.

Teaching objectives

At the end of the training, the participant will be able to:

- Introducing Catalyst 9000 switches, designed for Cisco DNA and the SD-Access solution
- Position 9000 models in the network and plan migration from older Catalysts
- Identifying the role of Cisco Silicon One in campus environments
- Examine Catalyst 9000 management, scalability and performance
- Describe security, QoS, IoT support and new BGP EVPN functions
- Explore automation functions: APIs, Infrastructure as Code, Cisco tools
- Discover DNA Center's application hosting and maintenance functions
- Deploy Day 0 automation with Cisco DNA Center (LAN Automation, PnP)
- Manage cloud networking with Meraki Dashboard and analysis tools
- Describe 9200 to 9600 series architectures, modules and components

Intended audience
Network engineers, designers, managers, system engineers.

Prerequisites

Cisco CCNP® certification or equivalent experience. Knowledge of: routing configuration, LAN switching with legacy Cisco Catalyst switches, Cisco IOS XE, Cisco ISE, etc.

Certification

This course does not lead to a certification exam.

Practical details

Teaching methods

Training in French. Official course material in English.

Course schedule

1 **Official program**

- Introducing Cisco Catalyst 9000 series switches.
- Positioning of Cisco Catalyst 9000 series switches.
- Catalyst Silicon One architecture description.
- Examine the management capabilities of Cisco Catalyst 9000 series switches.
- Description of the scalability and performance features of Cisco Catalyst 9000 series switches.
- Description of the security features of Cisco Catalyst 9000 series switches.
- An introduction to the automation features of Cisco Catalyst 9000 series switches.
- Presentation of QoS, IoT, and BGP EVPN features on Cisco Catalyst 9000 series switches.
- Maintenance features of Cisco Catalyst 9000 series switches.
- Description of the Cisco SD-Access solution and Cisco Catalyst 9000 series switches.
- Application hosting with Cisco Catalyst 9000 series switches.
- Cloud management of Cisco Catalyst 9000 series switches using Meraki Dashboard.
- Automation of network modifications using Cisco DNA Center.
- Introducing Cisco Catalyst 9200 series switches.
- Introducing Cisco Catalyst 9300 series switches.
- Introducing Cisco Catalyst 9400 series switches.
- Introducing Cisco Catalyst 9500 series switches.
- Introducing Cisco Catalyst 9600 series switches.

2 **Official practical work**

- Configure and troubleshoot network problems using WebGUI.
- Host applications on Cisco Catalyst 9000 series switches with CLI.
- Configure switch stacking with Cisco Catalyst 9300 series switches.
- Activate and verify a Switch-to-Switch MACSec configuration.
- Enable and verify encrypted traffic analysis.
- Discover the automation and programmability of switch management.
- Discover network automation using Ansible Playbooks and Terraform Scripts.
- Configure perpetual PoE and fast PoE on a Cisco Catalyst 9000 family switch.
- Configure Packet Capture on Cisco Catalyst 9300 series switches.
- Perform an IRM on a Cisco Catalyst 9000 family switch.
- Host applications on Cisco Catalyst 9300 series switches using Cisco DNA Center.
- Integrate Cisco DNA Center and Cisco ISE.
- Provision underlying networks with Cisco DNA Center LAN Automation.

Dates and locations

REMOTE CLASS
2026 : 2 June, 15 Sep., 24 Nov.

PARIS LA DÉFENSE
2026 : 2 June, 15 Sep., 24 Nov.