# Implementing Cisco Catalyst 9000 Switches (ENC9K)

**Category:** Networking & Security | **Vendor:** Cisco

**Duration:** 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The Implementing Cisco Catalyst 9000 Series Switches (ENC9K) training provides you with an insight into Cisco Catalyst 9000 Series Switches and its solution components. It also covers inclusion of Silicon One ASICs for Cisco Catalyst 9000 Series Switches.

Cisco Catalyst 9000 Series Switches are the next generation in the legendary Cisco Catalyst family of enterprise LAN access, aggregation, and core switches. They are purpose built from the ground up for the new realities of the digital era. They are twice as fast, with twice the capacity, providing end-to-end security, and automation using centralized management using Cisco DNA Center. Cisco Catalyst 9000 switches lead the industry with the first 400G interfaces in enterprise computing, first Silicon One ASICs for campus, full multigigabit and UPoE+ ports, converged switching and routing. This training also earns you 18 Continuing Education (CE) credits toward recertification.

How You'll Benefit

This training will help you:

- Prepare for successful deployment of the Cisco Catalyst 9000 Series Switches
- Understand the role of Cisco Catalyst 9000 Series Switches in the SD-Access fabric
- Learn to provision Cisco Catalyst 9000 Series Switches using Cisco DNA Center as the orchestration platform
- Gain hands-on practice through in-depth lab exercises
- Earn 18 CE credits toward recertification

## About This Course

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## Who Should Attend

- Network designers
- Network managers
- System engineers

## Prerequisites & Entry Requirements

**General Prerequisites:**

You are expected to have the following knowledge and skills before attending this course:

- Cisco CCNP® certification or equivalent experience
- Knowledge of configuring LAN routing and switching with Cisco Catalyst switches
- Familiarity with the Cisco IOS XE operating system
- Familiarity with using network management software
- Familiarity with Cisco Intent-based networking and policy-based management automation technologies

The following Cisco offerings can help you prepare for this course:

- Implementing and Administering Cisco Solutions (CCNA)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

# Learning Outcomes

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

After taking this course, you should be able to:

- Review the Cisco Catalyst 9000 Series Switches identify the switches’ features and examine the functionalities purpose-built for Cisco DNA and the SD-Access solution.
- Position the different Cisco Catalyst 9000 Series Switch model types in the network, and map older Cisco Catalyst switches to the 9000 family for migration.
- Identify the role and value of Cisco Silicon One in a campus environment.
- Examine management capabilities of the Cisco Catalyst 9000 Series Switches.
- Describe the scalability and performance features supported by the Cisco Catalyst 9000 Series Switches.
- Describe the Cisco Catalyst 9000 Series Switch support for security, Quality of Service (QoS), and Internet of Things (IoT) convergence features.
- Describe automation features, Application Programming Interface (API), Infrastructure as Code, and automation tools supported on Cisco Catalyst 9000 Series switches.
- Describe the new QoS, IoT, and BGP EVPN Features on Cisco Catalyst 9000 Series Switches.
- Describe the maintenance features on Cisco Catalyst 9000 Series switches.
- Explore the SD-Access solution fundamentals, deployment models for the Cisco Catalyst 9000 Series Switch, and the use of Cisco DNA Center to manage infrastructure devices.
- Automate Day 0 device onboarding with Cisco DNA Center LAN Automation and Network PnP.
- Describe how to manage and host applications on Cisco Catalyst 9000 Series switches using Cisco DNA Center.
- Explore a modern approach to cloud-managed networking for Cisco Catalyst 9000 Series switches and wireless access points that uses the Meraki Dashboard and analytics.
- Describe the Cisco Catalyst 9200 Series Switch architecture, model types, port types, uplink modules, components including power supplies, and other switch features and capabilities.
- Describe the Cisco Catalyst 9300 Series Switch architecture, model types, port types, uplink modules, and components, including power supplies and stacking cables.
- Describe the Cisco Catalyst 9400 Series Switches, different modular chassis, supervisor and line card options, architectural components, uplink, and power redundancy, and Multigigabit ports
- Describe the Cisco Catalyst 9500 Series Switches, model types, switch components, RFID support,

architecture, and switch profiles.

- Describe the Cisco Catalyst 9600 Series Switch architecture, supervisor and line card options, and high availability features.

## Detailed Course Outline

- Introducing the Cisco Catalyst 9000 Series Switches
- Positioning Cisco Catalyst 9000 Series Switches
- Cisco Catalyst Silicon One Architecture
- Exploring Cisco Catalyst 9000 Series Switches Management Capabilities
- Scale and Performance Features on Cisco Catalyst 9000 Series Switches
- Security Features on Cisco Catalyst 9000 Series Switches
- Automation Features on Cisco Catalyst 9000 Series Switches
- QoS, IoT, and BGP EVPN Features on Cisco Catalyst 9000 Series Switches
- Maintenance Features on Cisco Catalyst 9000 Series Switches
- Cisco SD-Access Solution on Cisco Catalyst 9000 Series Switches
- Application Hosting on Cisco Catalyst 9000 Series Switches
- Cloud Management for Catalyst 9000 Series Using Meraki Dashboard
- Automating Network Changes with 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

**Skills You Will Learn:**

After taking this course, you should be able to:<br><br><br><br>- Review the Cisco Catalyst 9000 Series Switches identify the switches' features and examine the functionalities purpose-built for Cisco DNA and the SD-Access solution.<br>- Position the different Cisco Catalyst 9000 Series Switch model types in the network, and map older Cisco Catalyst switches to the 9000 family for migration.<br>- Identify the role and value of Cisco Silicon One in a campus environment.<br>- Examine management capabilities of the Cisco Catalyst 9000 Series Switches.<br>- Describe the scalability and performance features supported by the Cisco Catalyst 9000 Series Switches.<br>- Describe the Cisco Catalyst 9000 Series Switch support for security, Quality of Service (QoS), and Internet of Things (IoT) convergence features.<br>- Describe automation features, Application Programming Interface (API), Infrastructure as Code, and automation tools supported on Cisco Catalyst 9000 Series switches.<br>- Describe the new QoS, IoT, and BGP EVPN Features on Cisco Catalyst 9000 Series Switches.<br>- Describe the maintenance features on Cisco Catalyst 9000 Series switches.<br>- Explore the SD-Access solution fundamentals, deployment models for the Cisco Catalyst 9000 Series Switch, and the use of Cisco DNA Center to manage infrastructure devices.<br>- Automate Day 0 device onboarding with Cisco DNA Center LAN Automation and Network PnP.<br>- Describe how to manage and host applications on Cisco Catalyst 9000 Series switches using Cisco DNA Center.<br>- Explore a modern approach to cloud-managed networking for Cisco Catalyst 9000 Series switches and wireless access points that uses the Meraki Dashboard and analytics.<br>- Describe the Cisco Catalyst 9200 Series Switch architecture, model types, port types, uplink modules, components including power supplies, and other switch features and capabilities.<br>- Describe the Cisco Catalyst 9300 Series Switch architecture, model types, port types, uplink modules, and components, including power supplies and stacking cables.<br>- Describe the Cisco Catalyst 9400 Series Switches, different modular chassis, supervisor and line card options, architectural components, uplink, and power redundancy, and Multigigabit ports<br>- Describe the Cisco Catalyst 9500 Series Switches, model types, switch components, RFID support, architecture, and switch profiles.<br>- Describe the Cisco Catalyst 9600 Series Switch architecture, supervisor and line card options, and high availability features.

# Frequently Asked Questions

### Q: What delivery options are available for Implementing Cisco Catalyst 9000 Switches (ENC9K)?

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

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### Q: How many CPD hours does this course provide?

The 3-day Implementing Cisco Catalyst 9000 Switches (ENC9K) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Implementing Cisco Catalyst 9000 Switches (ENC9K) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Implementing Cisco Catalyst 9000 Switches (ENC9K)?

Yes, we provide corporate training, dedicated training, and closed classes for Implementing Cisco Catalyst 9000 Switches (ENC9K). 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.

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### Q: What related terms do people search for?

Popular related searches include: Implementing Cisco Catalyst 9000 Switches, Cisco Networking, ENC9K

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## Q: Why choose Nexus Human for Implementing Cisco Catalyst 9000 Switches (ENC9K)?

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

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## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Implementing Cisco Catalyst 9000 Switches (ENC9K) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


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