

## Implementing Cisco Catalyst 9000 Series Switches (CPLL-ENC9K)

Duration: 180 days

The Implementing Cisco Catalyst 9000 Series Switches (ENC9K) Learning Path 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 Learning Path also earns you 18 Continuing Education (CE) credits toward recertification.

### Skills You'll Learn

- Identify and describe features, architectures, and models of Cisco Catalyst 9000 Series Switches, including Silicon One ASICs
- Deploy, manage, and automate Cisco Catalyst 9000 switches using Cisco DNA Center, including device onboarding and policy-based management
- Configure and verify advanced networking, security, QoS, IoT, and BGP EVPN features, as well as switch maintenance and high availability
- Use automation and programmability tools such as APIs, Ansible, and Terraform, and manage application hosting on Catalyst 9000 switches
- Gain hands-on experience with configuration, troubleshooting, automation, analytics, and switch stacking through practical lab exercises

### Learning Path Objectives

1. Cisco Catalyst 9000 Series Switches Product Family: Explore the Catalyst 9000 Series switches product family, including the 9200, 9300, 9400, 9500, and 9600 models. You'll examine the Cisco Unified Access Data Plane (UADP) ASIC 2.0 and 3.0, the chipsets at the core of the Catalyst 9000 product family, and you'll trace packets through the core architecture.
2. Cisco Catalyst 9000 Series Switches Features and Capabilities: Discover the features and capabilities of the Cisco Catalyst 9000 series switches, including scaling, automation, maintenance, QoS, and application hosting. You will also explore Software Defined Access (SD-Access) and Cisco AI Endpoint Analytics.
3. On Prem and Cloud Management of Cisco Catalyst 9000 Series Switches: Learn to manage Cisco Catalyst 9000 Series switches both on-premises and in the cloud. You will learn to use the Meraki Dashboard, Cisco DNA Center, and Cisco DNA Center Assurance to manage your switches.