



CISCO TRAINING

Understanding Cisco SDA Fundamentals

Master the fundamentals of Cisco Software-Defined Access. Understand its architecture and key components for modern network design.

DURATION

2 hours

LEVEL

Foundation

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This "Understanding Cisco SDA Fundamentals" course provides a comprehensive introduction to Cisco's revolutionary Software-Defined Access (SDA) solution. In just two hours, participants will delve into the core concepts, architecture, and benefits of SDA, a key component of Cisco's Intent-Based Networking strategy. You will learn how SDA simplifies network operations, enhances security, and automates policy enforcement across campus and branch networks, moving beyond traditional, rigid network configurations.

The course covers the fundamental building blocks of an SDA fabric, including the roles of Cisco DNA Center, the underlay and overlay networks, VXLAN, and LISP. It emphasizes how SDA enables consistent policy application and network segmentation for users and devices, significantly improving operational efficiency and reducing human error. This foundational understanding is crucial for navigating modern, complex network environments and preparing for future advancements in networking.

By completing this course, you will gain a solid conceptual grasp of how Cisco SDA transforms network management from a manual, device-centric approach to an automated, policy-driven one. This knowledge is invaluable for IT professionals looking to adapt to the evolving landscape of enterprise networking, providing a strong stepping stone for further specialization in Cisco's software-defined solutions and contributing to more agile and secure network infrastructures.

Duration	2 hours
Level	Foundation
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Introduction to Software-Defined Access (SDA)

- What is Software-Defined Networking (SDN)?
- Challenges of Traditional Networks
- Overview of Cisco Intent-Based Networking
- Key Benefits of Cisco SDA (Automation, Security, Agility)

02 Module 2: Cisco SDA Architecture Fundamentals

- Cisco DNA Center: The Controller
- Underlay Network (Physical Infrastructure)
- Overlay Network (Virtual Fabric)
- Control Plane, Data Plane, and Policy Plane Concepts

03 Module 3: Core Technologies of SDA

- Virtual Extensible LAN (VXLAN) Tunneling
- Locator/ID Separation Protocol (LISP) for Endpoint Mobility
- Cisco TrustSec and Group-Based Policy (GBP)
- Integration with Cisco Identity Services Engine (ISE)

04 Module 4: Navigating Cisco DNA Center for SDA Operations

- Introduction to DNA Center User Interface
- SDA Fabric Provisioning Workflow Overview
- Basic Monitoring and Assurance Dashboards

- Understanding SDA Automation and Orchestration Capabilities

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Entry-Level Network Engineer (SDA Focus)**
- > **Network Operations Center (NOC) Analyst supporting modern Cisco infrastructure**
- > **IT Support Specialist with foundational knowledge in software-defined networking**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge is recommended before taking the Understanding Cisco SDA Fundamentals course?

While this course is designed as an introduction, participants will benefit most from having a basic understanding of general networking concepts, including IP addressing, routing, switching, and common network protocols. Familiarity with the general architecture of enterprise networks, similar to what's covered in an entry-level networking certification, would be advantageous but is not strictly required.

Q: Which specific skills will I acquire that are immediately applicable after completing this course?

Upon completion, you will be able to articulate the core principles and benefits of Cisco SDA, understand the functional roles of its architectural components (like DNA Center and fabric nodes), and describe how technologies such as VXLAN and LISP enable the SDA fabric. You'll gain conceptual clarity on policy-based automation and network segmentation, enabling you to better participate in discussions and planning for modern network deployments.

Q: How does this 'Understanding Cisco SDA Fundamentals' course prepare me for advanced Cisco SDA certifications or roles?

This foundational course serves as an essential stepping stone by providing the critical conceptual understanding of Cisco SDA. It lays the groundwork necessary to pursue more advanced certifications such as the Cisco Certified Network Professional (CCNP) Enterprise concentration exams related to implementing and operating Cisco SDA. It prepares you to grasp the 'why' and 'what' of SDA before diving into the 'how' in deeper technical training, accelerating your path to roles focused on deploying or managing SDA solutions.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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