

# Understanding Cisco SDA Fundamentals (SDAFND) v1.0

## What you'll learn in this course

The **Understanding Cisco SDA Fundamentals (SDAFND)** v1.0 course introduces you to Cisco® Software-Defined Access and teaches you, through a combination of lectures, labs, and simulations how to implement simple, single-site fabric networks.

You will learn the benefits of leveraging Software-Defined Access in the Cisco-powered Enterprise Campus network. **SDAFND** will introduce the solution, its architecture and components, and guide you through labs to design and deploy simple Cisco SD-Access networks.

## Course duration

- Instructor-led classroom: 3 days in the classroom with hands-on lab practice
- E-learning: Equivalent of 3 days of instruction and hands-on lab practice

## How you'll benefit

This course will help you:

- Deploy Cisco SD-Access networks
- Explain Cisco Software-Designed Access
- Operate, manage, and integrate Cisco DNA Center™
- Prepare for various Cisco certifications: **Cisco Certified Specialist – Enterprise Core (ENCOR)**, and **Cisco Certified Specialist – Enterprise Design (ENSLD)**

## Who should enroll

- Field engineers
- Network engineers
- Network administrators
- System engineers

## How to Enroll

### Instructor-led training

- Find a class at the [Cisco Learning Locator](#).
- Arrange training at your location through [Cisco Private Group Training](#).

### E-learning

- To buy a single e-learning license, visit the [Cisco Learning Network Store](#).
- For more than one license, or a learning library subscription, contact us at [learning-bdm@cisco.com](mailto:learning-bdm@cisco.com).

## Technology areas

- Software-defined access networks

## Course details

### Objectives

After taking this course, you should be able to:

- Describe Cisco SD-Access architecture and its components
- Explain Cisco DNA Center deployment models, scaling, and high availability
- Identify Cisco SD-Access fabric protocols and node roles
- Understand the Cisco SD-Access Wireless deployment models
- Automate Day 0 device onboarding with Cisco DNA Center LAN Automation and Network PnP
- Deploy simple Cisco SD-Access fabric networks
- Monitor health and performance of the network with Cisco DNA Center Assurance
- Interact with the Cisco DNA Center Platform Intent APIs

### Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- CCNP® level core networking knowledge
- Ability to use Windows and Linux CLI tools such as ping, SSH, or running scripts

These are the recommended Cisco offerings that may help you meet these prerequisites:

- **Implementing and Administering Cisco Solutions (CCNA®) v1.0**
- **Implementing Cisco Enterprise Network Core Technologies (ENCOR) v1.1**

## Outline

- Introducing Cisco SD-Access
- Introducing Cisco DNA Center
- Exploring Cisco SD-Access Solution Components
- Exploring Cisco SD-Access Wireless Architecture
- Automating Network Changes with Cisco DNA Center
- Deploying Fabric Networks with Cisco DNA Center
- Exploring Cisco DNA Center Assurance
- Exploring Cisco DNA Center Programmability

## Lab Outline

NOTE: Some of these lab activities are simulations and are marked as such following the name of the lab activity.

- Explore Cisco DNA Center User Interface
- Verify Location Identifier Separation Protocol (LISP) Operation in Cisco SD-Access
- Integrate Cisco DNA Center and Cisco Identity Services Engine (Cisco ISE) [Simulation]
- Provision Access Points in Cisco DNA Center [Simulation]
- Provision Underlay Networks with Cisco DNA Center LAN Automation [Simulation]
- Provision Underlay Networks with Cisco DNA Center LAN Automation (cont.)
- Deploy Cisco SD-Access Single Site Fabric [Simulation]
- Deploy Cisco SD-Access Single Site Fabric (cont.)
- Explore Cisco DNA Center Assurance [Simulation]
- Cisco DNA Assurance Issues and Guided Remediation [Simulation]
- Interact with Cisco DNA Center Intent APIs Using Python


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Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

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