SDAINT - CATALYST CENTER (FORMERLY DNAC) AND SD-ACCESS TRAINING

Course Code: 7083

Learn Cisco SD-Access & Catalyst Center to simplify secure access and automate programmable network control.

Introduction to Cisco SD-Access and Catalyst Center (formerly DNA Center) offers Cisco's next-generation programmable digital network to help automate common network access security features and streamline the redundant, complex configuration required to allow different groups of users access to the network infrastructure.

This 2-day network security training course empowers network administrators to quickly allow differentiated access for end users on the network while allowing the network to react automatically to day zero and other types of attacks using integration with Cisco ISE for Policy Enforcement with Cisco Catalyst Center (formerly DNA Center).

The course qualifies for 21 Cisco Continuing Education Credits (CE).

What You'll Learn

Upon completing this course, the learner will be able to meet these overall objectives:

- Know and understand Cisco's SD-Access concepts, features, benefits, terminology and the way this approach innovates common administrative tasks on today's networks.
- Differentiate and explain each of the building blocks of SD-Access Solution
- Explain the concept of "Fabric" and the different node types that conform it (Fabric Edge Nodes, Control Plane Nodes, Border Nodes)
- Describe the role of LISP in Control Plane and VXLAN in Data Plane for SD-Access Solution
- Understand the role of Catalyst Center (formerly DNAC) as the solution orchestrator and Intelligent GUI
- Be familiar with workflow approach in Catalyst Center and its 4 Steps: Design, Policy, Provision and Assurance.

Who Needs to Attend

The primary audience for this course is as follows:

- Anyone interested in knowing about Catalyst/DNA Center and SD-Access
- Personnel involved in SD-Access Design and Implementation
- Network Operations team members using SD-Access solution
- Network admin staff that deal with User Access
- Channel Partner SEs and other sales support
- Network Access Control administrators
- Network Administrators
- Network Architects
- Network Engineers

Prerequisites

The knowledge and skills that a learner should have before attending this course are as follows:

- Knowledge level equivalent to Cisco CCNA Routing & Switching
- Basic knowledge of Software Defined Networks
- Basic knowledge and experience with Cisco IOS, IOS XE and CLI

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CLASSROOM LIVE	$2,495 USD	2 Day

Classroom Live Outline

Module 1: Introduction to Cisco's Software Defined Access (SD-Access)

- Software Defined Access (SDA) Overview
- SD-Access Benefits
- SD-Access Key Concepts
- SD-Access Main Components
  - Catalyst Center (DNA Controller)
  - NDP (Analytics and Assurance)

Module 2: SD-Access Campus Fabric

- SD-Access Campus Fabric Overview
- Key Components
  - Control Plane Based on LISP
  - Data Plane Based on VXLAN
  - Policy Plane Based on CTS
- Cisco SD-Access Platform Support
  - Fabric Edge Node
  - Fabric Control Plane
  - Fabric Border Node
  - Fabric Extended Node
- Fabric-Enabled WLAN
- Cisco SD-Access Scaling Considerations

Module 3: Catalyst Center (formerly DNA Center) and Workflow for SD-Access

- Cisco Catalyst/DNA Cener Automation Overview
- Workflow for SD-Access in Catalyst Center
- Integration with Cisco ISE for Policy Enforcement
- Integration with Cisco NDP for Analytics and Assurance

Module 4: Catalyst/DNA Center Workflow First Step – Design

- Catalyst/DNA Center Workflow Design Overview
- Creating Enterprise and Sites Hierarchy
- Discuss and Demonstrate General Network Settings
- Loading Maps into the GUI
- IP Address Administration
- Administering Software Images
- Network Device Profiles
- Underlay Automation
- Network Planning
- Underlay Network Design

Module 5: Catalyst/DNA Center Workflow Second Step – Policy

- Cisco Catalyst/DNA Center Policy Overview
- 2-Level Hierarchy
    - Macro Level: Virtual Network (VN)
    - Micro Level: Scalable Groups (SG)
- Policy Types
    - Access Policy
    - Access Control Policy
    - Traffic Copy Policy
    - Access Controls Based on Group-Based Policies
- ISE Integration with Catalyst/DNA Center
- Cross Domain Policies

Module 6: Catalyst/DNA Center Workflow Third Step – Provision

- Catalyst/DNA Center Provision Overview
- Device Onboarding
- Underlay Network Provisioning
- Fabric Domains
- Adding Nodes

Module 7: DNA Center Workflow Fourth Step – Assurance

- Introduction to Analytics
- NDP Fundamentals
- Overview of Catalyst/DNA Assurance
- Assurance within SD-Access
- Assurance Use Cases
- DNA Center Assurance Dashboard
- Understand Assurance Health Scores

Module 8: Implementing WLAN in SD-Access Solution

- WLAN Integration Strategies in SD-Access Fabric
- SD-Access Wireless Architecture
- Sample Design for SD-Access Wireless
    - Guest Design Options

Module 9: Campus Fabric External Connectivity for SD-Access

- Enterprise Sample Topology for SD-Access

- Cisco SD-Access Border
  - SD-Access Border
  - SD-Access Default Border
- Single Border vs. Multiple Border Designs
- Collocated vs. Distributed Border and Control Plane Nodes
  - Use Case 1: Border with Collocated Control Plane Node
  - Use Case 2: Border with Distributed Control Plane Node
  - FiaB Deployment
- Cisco SD-Access Distributed Campus

Classroom Live Labs

Lab Outline:

- Lab 0: Access the Lab
- Lab 1: Integrate Cisco ISE with Cisco Catalyst/DNA Center
- Lab 2: Navigate Cisco Catalyst/DNA Center
- Lab 3 : Discover the SD-Access Underlay
- Lab 4: Cisco Catalyst/DNA Center Design
- Lab 5: Catalyst/DNA Center Policies
- Lab 6: Catalyst/DNA Center Provisioning and Onboarding

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Aug 10 - 11, 2026 | 10:00 AM - 6:00 PM EST

Oct 5 - 6, 2026 | 10:00 AM - 6:00 PM EST

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PRIVATE GROUP TRAINING	2 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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