Transforming to a Cisco Intent Based Network

Duration: 180 Days   **Course Code: IBNTRN**   **Version: 1.1**   **Delivery Method: Elearning (Self-paced)**

Overview:

The Transforming to a Cisco Intent-Based Network (IBNTRN) course teaches you how the functionality of Cisco® SD-Access fits into Cisco Digital Network Architecture (Cisco DNA™). Through a combination of lessons and hands-on learning, you will practice operating, managing, and integrating Cisco DNA Center, programmable network infrastructure, and Cisco SD-Access fundamentals. You will learn how Cisco delivers intent-based networking across the campus, branch, WAN, and extended enterprise and ensures that your network is operating as intended.
This course is worth 40 Continuing Education Credits

Target Audience:

Individuals who are looking to leverage the functionality of Cisco DNA Center to streamline operations, reduce costs, detect and contain threats, and continuously align the network to business needs

Objectives:

- **After completing this course, you should be able to:**

- Identify the Cisco Digital Network Architecture solution by describing the vision, strategy, general concepts, and components.

- Describe the Cisco DNA Center design application, hierarchical network design, and basic network settings, and describe the integration of Cisco DNA Center with Cisco Identity Services Engine (Cisco ISE) for Automation and Assurance.

- Describe the Cisco DNA Center Inventory and the available mechanisms for discovering and adding network devices, and explore the device compatibility with Cisco DNA Center and SD-Access.

- Describe the Cisco DNA Center automation features such as configuration templates, software image maintenance, and Plug and Play (PnP) device onboarding.

- Explore the Cisco DNA Center user interface, the available workflows for onboarding devices, and how to design and manage a network.

- Introduce Cisco SD-Access, describe the different node types in the fabric and the two-level segmentation provided by the solution, and take a deep dive into the control and data plane protocols used in Cisco SD-Access.

- Describe the Cisco DNA Center workflow for deploying Cisco SD-Access, defining all the prerequisite network settings and profiles, defining the required policies, creating fabric domains and sites, and provisioning fabric nodes.

- Create and manage fabric domains and sites, provision fabric devices, and onboard your endpoints in a single site or distributed fabric campus network.

- Describe the features available for automating and monitoring wireless networks with Cisco DNA Center, and describe the available deployment models with their benefits and limitations, such as wireless Over-the-Top (OTT) and SD-Access Wireless.

- Describe the Cisco SD-Access Extension for IoT solution, its architecture and components, and the benefits and limitations of the solution

- Describe the use cases and migration scenarios for migrating users from traditional campus to SD

Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of network routing and switching principles equivalent to a CCNP® Enterprise level
- Experience with Cisco Unified Wireless Network technologies
- Experience with Cisco ISE, 802.1x, and Cisco TrustSec
- Understanding of segmentation technologies such as VLANs and

Testing and Certification

Recommended as preparation for the following exam:

- This course is currently not aligned to an exam

Virtual Routing and Forwarding (VRF)
- Basic understanding of overlay technologies such as Virtual Extensible LAN (VXLAN)
- Basic understanding of Locator ID Separation Protocol (LISP).
- WLFNDU - Understanding Cisco Wireless Foundations
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies
- ISESDA - Configuring Cisco ISE Essentials for SD-Access

Content:

Introducing Cisco DNA Architecture

Cisco DNA Center Design

Cisco DNA Center Inventory

Cisco DNA Center Automation

Explore Cisco DNA Center and Automating Network Changes

Introducing Cisco Software-Defined Access

Deploying Cisco Software-Defined Access

Deploy Wired Fabric Networks with Cisco DNA Center

Cisco SD-Access for Wireless

Cisco SD-Access Extension for IoT

Deploy Brownfield and Fabric Wireless Network with Cisco DNA Center

Migrating to Cisco SD-Access

Cisco SD-Access Multicast

Integrating Cisco DNA Center

Deploy SD-Access Layer 2 Borders and Multicast and Integrate Cisco DNA Center with External Services or Applications

Understanding Programmable Network Infrastructure

Operating and Managing Cisco DNA Infrastructure

Test Drive Cisco DNA Center APIs

Labs

- Explore Cisco DNA Center and Automate Network Changes
- Deploy Wired Fabric Networks with Cisco DNA Center
- Deploy Brownfield and Fabric Wireless Network with Cisco DNA Center
- Deploy SD-Access Layer 2 Borders and Multicast and Integrate Cisco DNA Center with External Services or Applications

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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