Transforming to a Cisco Intent-Based Network (IBNTRN)

Category: Networking & Security | **Vendor:** Cisco

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Transforming to a Cisco Intent-Based Network (IBNTRN) v1.1 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.

How you'll benefit

This class will help you:

- Configure an open, software-driven approach that makes the network simpler, more agile, and responsive to business needs
- Leverage the functionality of Cisco DNA Center to streamline operations, reduce costs, detect and contain threats, and continuously align the network to business needs

About This Course

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Who Should Attend

- Channel partners and resellers
- Network administrators
- Network engineers
- Sales engineers
- System engineers
- Technical architects
- Technical support personnel

Prerequisites & Entry Requirements

General Prerequisites:

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

- 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 Virtual Routing and Forwarding (VRF)
- Basic understanding of overlay technologies such as Virtual Extensible LAN (VXLAN)
- Basic understanding of Locator ID Separation Protocol (LISP).

Recommended Cisco courses that may help you meet these prerequisites:

- Understanding Cisco Wireless Foundations (WLFNDU)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)
- Configuring Cisco ISE Essentials for SD-Access (ISESDA)

We recommend prior attendance of the courses

- Wireless Fundamentals 1 (WFUN1) and Wireless Fundamentals 2 (WFUN2) or
- Certified Wireless Network Administrator (CWNA)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After taking 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

Detailed Course Outline

- 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

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Transforming to a Cisco Intent-Based Network (IBNTRN)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Transforming to a Cisco Intent-Based Network (IBNTRN) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Transforming to a Cisco Intent-Based Network (IBNTRN) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Transforming to a Cisco Intent-Based Network (IBNTRN)?

Yes, we provide corporate training, dedicated training, and closed classes for Transforming to a Cisco Intent-Based Network (IBNTRN). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Transforming to a Cisco Intent-Based Network, Cisco Digital Network Architecture (DNA), IBNTRN

Q: Why choose Nexus Human for Transforming to a Cisco Intent-Based Network (IBNTRN)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Transforming to a Cisco Intent-Based Network (IBNTRN) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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