# Cisco DNA Center Automation & Assurance (DNACA)

**COURSE OVERVIEW**

This course will cover the basics of installing and operation of the Cisco DNA Center (DNAC) running version 2.x. The Cisco DNAC is a stand-alone product that provides a single dashboard for every fundamental management task to simplify running an enterprise network. The DNAC is the management piece of the Software Defined Access (SDA) solution

**WHO WILL BENEFIT FROM THIS COURSE?**

The primary audience for this course is system engineers, network engineers, technical architects, technical support personnel, and channel partners and resellers.

**PREREQUISITES**

Students should have an understanding of network routing and switching principles equivalent to the Cisco CCNA certification level.

It is recommended but not required to have the following skills and knowledge before attending this course:

- Foundational understanding of network design, routing, switching, QoS, and security
- Understanding of Cisco Discovery Protocol, Link Layer Discovery Protocol (LLDP), Dynamic Host Configuration
- Protocol (DHCP), DNS, Network Time Protocol (NTP), and Simple Network Management Protocol (SNMP)
- Understanding of TCP protocols such as HTTP, HTTPS, and Telnet
- Understanding of routing concepts and the ability to configure routing protocols such as Enhanced Interior
- Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF)
- Basic knowledge of SDN, northbound APIs, southbound APIs, and (REST) APIs
- Understanding of WLAN parameters
- Basic understanding of wireless controllers (WLCs) and access point (AP) capabilities

**COURSE OBJECTIVES**

Upon completion of this course, you should be able to:

- Describe the Cisco DNA Center solution as it relates to the enterprise network
- Deploy a Cisco DNA Center v1.3 appliance
- Understand and operate Cisco DNA Center Automation features
- Understand and operate Cisco DNA Center Assurance features

**COURSE OUTLINE**

Lesson 1: Cisco DNA Center Introduction

- Cisco DNA Center Architecture & Design
- Assurance overview
- Automation overview
- SD Access overview

Lesson 2: Cisco DNA Center - Installation

- Cisco DNA Center appliance(s) installation overview
- Install and configure a Cisco DNA Center appliance
- Verify Cisco DNA Center appliance installation
- Install Cisco DNA Center appliance upgrades & updates
- Cisco DNA Center appliance UI overview
- Lab 2-1

Lesson 3: Cisco DNA Center - Setup - Network Hierarchy & Network Settings

- Network Hierarchy overview
- Site Management
- Network Settings overview
- Network properties
- Device Credentials
- Lab 3-1

Lesson 4: Cisco DNA Center - Setup - Device Inventory

- Device Inventory overview
- Network Devices requirements
- Device and product compatibility
- Device management configuration
- Managing Device Inventory overview
- Device discovery
- Manually add Device
- Provision Devices
- Lab 4-1

Lesson 5: Cisco DNA Center Assurance

- Assurance overview
- Troubleshooting and Monitoring Tools
- Troubleshooting Wired networks
- Troubleshooting & Monitoring Wireless networks
- Troubleshooting & Monitoring Applications
- Troubleshooting & Monitoring users
- Sensor Driven Tests overview
- Troubleshooting & Monitoring using Sensor Driven Tests
- Lab 5-1

Lesson 6: Cisco DNA Center Automation – Configuration Management

- Configuration Management overview
- Create and deploy configuration using Network Profiles
- Create and deploy configuration using Template Editor
- Lab 6-1

Lesson 7 Cisco DNA Center Automation - Software Image Management

- Software Image Management (SWIM) overview
- Managing Software Images
- Image repository management
- Create golden software image & role
- Verify golden software image creation
- Lab 7-1

Lesson 8: Cisco DNA Center Automation – Plug n Play (PNP) Management

- Plug n Play overvieew
- Plug n Play prerequisites
- Plug n Play device onboarding
- Lab 8-1

---

**WHY TRAIN WITH SUNSET LEARNING INSTITUTE?**

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

**Premiere World Class Instruction Team**

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

**Enhanced Learning Experience**

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

**Convenient and Reliable Training Experience**

- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office

- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

**Outstanding Customer Service**
- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

**Interested in Private Group Training?**
**Contact Us**