

## Monitoring and Troubleshooting Network Performance using DNA Center with Assurance (DNACAM)

### COURSE OVERVIEW:

Monitoring and Troubleshooting Network Performance using Cisco DNA Center with Assurance is a 3-day course which provides students with the skills to implement, monitor, troubleshoot, and remediate network infrastructure, applications, and devices using Cisco DNA Center Assurance tools and techniques.

### PREREQUISITES:

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

- CCNP Level Routing
- Understanding of Identity Services Engine
- Practical network and LAN or WAN management experience.

### COURSE OUTLINE:

Module 1: Introduction to Cisco DNA Center Assurance

- Introduction to DNA Center
- System Architecture
- Key Features and Use Cases
- Getting Started
- Navigating the GUI

Module 2: Assurance System Architecture and Data Analytics

- DNAC Assurance Concepts
- Assurance Data and Metrics
- Assurance Health Scores
- Assurance Time Stamps and Data Refresh Concepts

Module 3: Monitoring Device, Client, and Application Health

- Monitoring Network Device Health and Performance
- Monitoring Wired and Wireless Client Health and Performance
- Monitoring Application Health and Performance

Module 4: Analyzing Issues using Cisco DNA Center Assurance

- Detecting Issues
- View and Mediate Issues

Module 5: Troubleshooting using Cisco DNA Center Assurance Tools

- DNAC Assurance Troubleshooting Tools
- Using Sensor Tests
- Using Intelligent Capture

## Lab Outline:

### Hands-On Labs:

- Lab 1: Navigate the Cisco DNA Center GUI
- Lab 2: Integrating ISE with Cisco DNA Center
- Lab 3: DNA Center Network Design, Hierarchy, Discovery and Inventory (Integrate Collectors: SNMP, Syslog and CMX Server)
- Lab 4: Discovering the Catalyst 9500 Seed Switch
- Lab 5: Configuring the Catalyst 9500 Seed Switch for the DNA Center PnP Provisioning Process
- Lab 6: DNA Center Automation: Day0 Network Provisioning using Plug and Play(PnP) Template Editor
- Lab 7: Discover Pod CSR Router in Cisco DNA Center
- Lab 8: Provisioning Devices and Assigning them to Site in Cisco DNA Center
- Lab 9: Configuring DNA Center Assurance Telemetry Profiles
- Lab 10: Configuring DNA Center Assurance Maximum Visibility Telemetry Profile For Application Visibility
- Lab 11: Connecting TFTP Server and TFTP Clients to the Network and Monitoring Application Traffic
- Lab 12: Monitoring and Troubleshooting the Cisco DNA Center Assurance Network Health and Assurance Issues
- Lab 13: DNA Center Assurance: Client Assurance, Health and Application Experience
- Lab 14: DNA Center Assurance: Application Experience and Application Health
- Lab 15: DNA Center Wireless Assurance

## SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:

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 cloud 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 at any of our established training facilities or from the convenience of your home or office with the use of our HD-ILT network (High Definition Instructor Led Training)
- 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**

- Dedicated account manager to suggest the optimal learning path for you and your team
- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience