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**Learning Style: Virtual Classroom**

**Provider: Cisco**

**Difficulty: Intermediate**

**Course Duration: 3 Days**

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



### **About this course:**

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.

## **Course Objective:**

- Explain the role of Cisco DNA Center Assurance, its key features, use cases, and how it supports intent-based networking
- Configure Cisco DNA Center Assurance to collect network telemetry data and monitor the network devices, clients, and applications
- Interpret health scores of network devices, clients, and applications and plan remediation actions
- Use Cisco DNA Center Assurance to explore common troubleshooting issues of client onboarding and application QoS concerns

## **Audience:**

The primary audience for this course is as follows:

- Network Administrators
- Network Engineers
- Channel Partners/Resellers, Customers, Employees
- System Engineers.

## **Prerequisite:**

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

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