## Leveraging Cisco Intent-Based Networking DNA Assurance (DNAAS) v1.0

## Course description

The Leveraging Cisco Intent-Based Networking DNA Assurance (DNAAS) v1.0 course provides you with the skills to monitor and troubleshoot a traditional brownfield network infrastructure by using Cisco® Digital Network Architecture (Cisco DNA™) Assurance. The course focuses on highlighting issues rather than on monitoring data. The advanced artificial intelligence and machine learning features within Cisco DNA Assurance enable you to isolate the root cause of a problem and to take appropriate actions to quickly resolve issues. Cisco DNA Assurance can be used to perform the work of a Level 3 support engineer.

## How you'll benefit

This course will help you:

● Monitor, identify, and respond to changing network and wireless conditions
● Automate manual operations to reduce the costs associated with human errors, resulting in more uptime and improved security
● Save time by using a single dashboard to manage and automate your network

## Who should enroll

This course is designed for network and software engineers who hold the following job roles:

● Network administrators
● Network operators

## Course Objectives

After taking this course, you should be able to:

● Explain the benefits of using Cisco DNA Center in a traditional, enterprise network
● Explain at a detailed level the Cisco DNA Center Assurance system architecture, functional components, features, and data-processing concepts

● Discuss the health scores, metrics, and strategies that you use for monitoring network devices, clients, and applications with Cisco DNA Assurance

● Describe how Cisco DNA Center Assurance analyzes the streaming telemetry and collected data, correlates the data, performs root cause analysis, and displays detected issues, insights, and trends

● Describe the Cisco DNA Center Assurance troubleshooting tools, mechanisms, strategies, and scenarios to proactively detect and resolve wireless network, client, and application issues and pinpoint the root cause

● Deploy and configure Cisco DNA Center to use Assurance features for monitoring and troubleshooting network devices, clients, and applications

## Course Prerequisites

Before taking this course, you should have the following knowledge and skills:

● Internet web browser usability knowledge
● Working knowledge of TCP/IP networking
● Familiarity with network management concepts such as Simple Network Management Protocol (SNMP), Syslog, and NetFlow

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

● Implementing and Administering Cisco Solutions (CCNA®)
● Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

## Course outline

● Introducing Cisco DNA Center Assurance
○ Cisco DNA Center and Intent-Based Network Management Automation
○ Cisco DNA Center System Architecture
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● Monitoring Health and Performance with Cisco DNA Center Assurance
○ Cisco DNA Center Assurance Functional Components
○ Cisco DNA Center Assurance Data Analytics and Metrics
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● Troubleshooting Issues, Observing Insights and Trends
○ Detect Issues, Insights, and Trends in the Network
○ Observe Trends, Insights, and Comparative Analysis
●

- Troubleshooting Wireless Issues with Cisco DNA Center Assurance Tools

  ○ Review of Assurance Tools for Troubleshooting Wireless Networks
  ○ Use Sensor Tests to Troubleshoot Wireless Networks
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## Lab outline

- Prepare Cisco DNA Center for Assurance
- Monitor the Health of Network Devices, Clients, and Applications
- Troubleshoot Network, Client, and Application Issues
- Analyze Wireless Networks with Advanced Assurance Tools