



CISCO TRAINING

Monitoring and Troubleshooting Network Performance using Cisco DNA Center with Assurance

Master Cisco DNA Center with Assurance to expertly monitor and troubleshoot network performance issues.

DURATION

2 hours

LEVEL

Advanced

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This advanced 2-hour course, "Monitoring and Troubleshooting Network Performance using Cisco DNA Center with Assurance," is designed for network professionals seeking to master the robust capabilities of Cisco DNA Center for proactive network management. Participants will dive deep into Cisco DNA Center's Assurance features, learning how to leverage its intelligent insights, telemetry data, and AI/ML-driven analytics to monitor network health, identify performance bottlenecks, and rapidly resolve complex issues across wired and wireless infrastructures. The curriculum focuses on practical application, enabling real-time visibility into network conditions, client experience, and application performance.

By completing this course, you will acquire critical skills to transform reactive troubleshooting into proactive problem prevention. You will learn to interpret health scores, analyze historical data, utilize Path Trace for end-to-end connectivity analysis, and implement automated remediation strategies. Mastering these advanced Assurance tools will not only enhance your operational efficiency but also significantly reduce Mean Time To Resolution (MTTR) for network incidents, ensuring optimal network uptime and a superior user experience. This expertise is invaluable for organizations transitioning to or currently operating intent-based networks and SD-Access architectures.

Duration	2 hours
Level	Advanced
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Introduction to Cisco DNA Center Assurance

- Overview of Intent-Based Networking and Cisco DNA Center
- Understanding the Role and Architecture of Assurance
- Navigating the DNA Center Assurance Dashboard
- Telemetry Data Collection and Core Components
- Key Performance Indicators (KPIs) and Health Scores

02 Module 2: Monitoring Network Health and Performance

- Real-time and Historical Data Analysis
- Monitoring Devices, Clients, and Applications
- Interpreting Network, Device, and Client Health Scores
- Baseline Analysis and Anomaly Detection
- Customizing Assurance Dashboards and Reports

03 Module 3: Proactive Troubleshooting with Assurance

- Identifying Common Network Issues using Assurance
- Utilizing Path Trace for End-to-End Visibility
- AI/ML-Driven Insights and Recommended Actions
- Analyzing Events, Alerts, and Notifications
- Troubleshooting Device Health and Connectivity

04 Module 4: Advanced Troubleshooting Techniques

- Troubleshooting Wireless Network Performance (Client Roaming, RF Issues)
- Troubleshooting Wired Network Issues (Access, Distribution, Core)
- Application Experience Monitoring and Troubleshooting
- Leveraging Sensor Data and Application Telemetry

- Integration with External Monitoring and ITSM Tools

05 Module 5: Automation and Operational Efficiency

- Automating Troubleshooting Workflows and Remediation
- Creating Custom Compliance and Audit Policies
- Generating Comprehensive Network Health Reports
- Best Practices for Incident Response with DNA Center Assurance
- Future Trends in Network Operations and Assurance

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Network Operations Engineer (Cisco DNA Assurance Specialist)**
- > **Network Performance & Optimization Analyst**
- > **Advanced Network Troubleshooting and Support Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge or experience is recommended before taking this advanced course on Cisco DNA Center Assurance?

To gain the most from this advanced course, it is highly recommended that participants have a solid understanding of networking fundamentals including TCP/IP, routing, and switching protocols. Prior experience with Cisco IOS XE devices and a basic familiarity with Cisco DNA Center's provisioning and policy capabilities will also be beneficial, as this course focuses on advanced monitoring and troubleshooting aspects.

Q: How does mastering Cisco DNA Center Assurance directly impact career advancement for network professionals?

Mastering Cisco DNA Center Assurance positions network professionals as invaluable assets capable of managing modern, complex networks proactively. It equips you with specialized skills to minimize network downtime, optimize user experience, and leverage advanced analytics, which are highly sought after in today's IT landscape. This expertise can lead to career advancement into senior operational roles, network architecture positions, or specialized troubleshooting and optimization careers within organizations adopting intent-based networking.

Q: What specific, practical troubleshooting skills will I gain by completing this course?

Upon completing this course, you will be proficient in utilizing Cisco DNA Center's Path Trace, health scores, AI/ML-driven insights, and advanced telemetry data to rapidly pinpoint root causes of network issues affecting wired, wireless, and application performance. You will gain practical experience in proactive monitoring, anomaly detection, performance baselining, and applying recommended remediation strategies to ensure optimal network health and a superior user experience.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

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READY TO ENROL?

Take the next step in your technology career.

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