



Designing and Implementing Enterprise Network Assurance

What you'll learn in this course

The Designing and Implementing Enterprise Network Assurance training is designed to enrich and expand your knowledge and skills in the realm of enterprise network assurance and management. This training is structured into four different tracks, collectively encompassing a broad spectrum of network assurance and monitoring aspects. As a participant, you will first overview different Cisco assurance products, followed by two tracks focused on Cisco ThousandEyes solution, and one dedicated to Meraki Insight. You will acquire the skills not just to utilize these solutions effectively, but also to deploy, configure, and manage them in your network environments. This includes learning about the initial setup, fine-tuning for optimal performance, and conducting day-to-day (Day 2) operations that ensure continuous, seamless network assurance.

This training prepares you for the 300-445 Designing and Implementing Enterprise Network Assurance exam. If passed, you earn the Enterprise Network Assurance Specialist certification and satisfy the concentration exam requirement for the Cisco Certified Networking Professional (CCNP) Enterprise certification. This training also earns you 32 Continuing Education (CE) credits toward recertification.

Course duration

- Instructor-led training: 4 days in the classroom
- Virtual instructor-led training: 4 days of web-based classes

Who should enroll

- Network Administrators
- System Engineers
- Network Analysts
- NOC Operators
- IT Professionals

Technology areas

Enterprise

Course details

Objectives

Examine Cisco ThousandEyes solution and its high-level use cases

Learn to effectively use Cisco Catalyst Center Assurance for at-a-glance health monitoring, metrics calculation, and data analysis, covering overall network, device, client, service, and application health

Gain valuable insights for troubleshooting and issue resolution, ensuring a reliable user experience in your network environment

Gain an introductory understanding of Cisco AppDynamics, Cisco Catalyst Software-Defined Wide Area Network (SD-WAN) Assurance, and Cisco ThousandEyes

Recommended knowledge and training

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

The knowledge and skills you are expected to have before attending this training are:

- Basic understanding of network fundamentals
- Basic understanding of Internet Control Message Protocol (ICMP), User Datagram Protocol (UDP), Transmission Control Protocol (TCP), Hypertext Transfer Protocol Secure (HTTPS), Secure Sockets Layer (SSL), and Domain Name System (DNS) protocol
- Basic familiarity with Cisco Catalyst SD-WAN
- Basic familiarity with Cisco Catalyst Center

The knowledge you are recommended to have before attending this training is:

- Basic familiarity with Cisco Meraki

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Administering Cisco Solutions- CCNA
- Implementing and Operating Cisco Enterprise Network Core Technologies- ENCOR

How to enroll

To enroll in the ENNA course or explore our larger catalog of courses on Cisco Digital Learning, contact us at [<training@fastlane-mea.com>](mailto:training@fastlane-mea.com)

Course Outline

- Enterprise Network Assurance Overview
- Introduction to Cisco Catalyst Center Assurance
- Introduction to Cisco AppDynamics
- Introduction to Cisco Catalyst SD-WAN Assurance
- Introduction to Cisco ThousandEyes
- Enterprise Agents Deployment
- BGP, Network, DNS, and Voice Tests Configuration
- Web Tests Configuration
- Endpoint Agent
- System Administration
- Network Troubleshooting with Cisco ThousandEyes
- Internet Insights
- Alerts and Dashboards Configuration
- Monitoring Solutions
- Cisco Meraki Network Assurance
- Cisco Meraki Insights