Designing and Implementing Enterprise Network

- 4 Days
- Lecture and Hands-on Labs

Course Overview

The Designing and Implementing Enterprise Network Assurance is a 4-day training 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.

Review this course online at https://www.alta3.com/courses/enna

Who Should Attend

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

What You'll Learn

- Deploy and Operate Cisco ThousandEyes for End-to-End Visibility
- Monitor Network Health Using Catalyst Center and SD-WAN Assurance
- Optimize Performance with Meraki Insight and Custom Dashboards
- Troubleshoot Proactively Using Alerts, Tests, and Internet Insights

Outline

1. Enterprise Network Assurance Overview
2. Introduction to Cisco Catalyst Center Assurance
3. Introduction to Cisco AppDynamics
4. Introduction to Cisco Catalyst SD-WAN Assurance
5. Introduction to Cisco ThousandEyes
6. Enterprise Agents Deployment
7. BGP, Network, DNS, and Voice Tests Configuration
8. Web Tests Configuration
9. Endpoint Agent
10. System Administration

11. Network Troubleshooting with Cisco ThousandEyes
12. Internet Insights
13. Alerts and Dashboards Configuration
14. Monitoring Solutions
15. Cisco Meraki Network Assurance
16. Cisco Meraki Insights

Lab Outline

1. Explore Cisco Catalyst Assurance
2. Schedule a Test
3. Deploy Enterprise Agent
4. Configure Network, DNS, and Voice Tests
5. Configure Web Tests
6. Deploy and Configure an Endpoint Agent
7. Configure Account Administration
8. Examine Internet Insights
9. Configure Alerts
10. Build a Dashboard
11. Enable Alerts and Configure Monitoring and Reporting
12. Examine Cisco Meraki Insights

Prerequisites

- 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
- Basic familiarity with Cisco Meraki