Implementing Cisco Enterprise Wireless Networks v1.1

- 5 Days
- Lecture and Hands-on Labs

Course Overview

The Implementing Cisco Enterprise Wireless Networks (ENWLSI) v1.1 is a 5-day course that gives you the knowledge and skills needed to create a secure wireless network infrastructure and troubleshoot any related issues. You will learn how to implement and fortify a wireless network infrastructure using Cisco Identity Service Engine (ISE), Cisco Prime Infrastructure (PI), and Cisco Connect Mobile Experience to monitor and troubleshoot network issues. This course provides hands-on labs to reinforce concepts including deploying Cisco Prime Infrastructure Release 3.5, Cisco Catalyst® 9800 Wireless Controller Release, Cisco IOS XE Gibraltar 16.10, Cisco Digital Network Architecture (Cisco DNA) Center Release 1.2.8, Cisco Connected Mobile Experiences (CMX) Release 10.5, Cisco Mobility Services Engine (MSE) Release 8.0 features, and Cisco ISE Release 2.4.

The course qualifies for 40 Cisco Continuing Education credits (CE) towards recertification.

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

Who Should Attend

- Network designers
- Sales engineers
- Wireless network engineers

What You'll Learn

- Secure and Harden Cisco Wireless Network Infrastructure
- Deploy Client Access, AAA, and Guest/BYOD Services
- Implement and Troubleshoot QoS and Application Visibility
- Configure Advanced Services Using Cisco CMX and Prime

Outline

1. Securing and Troubleshooting the Wireless Network Infrastructure
2. Implementing and Troubleshooting Secure Client Connectivity
3. Implementing and Troubleshooting Quality of Service (QoS) in Wireless Networks
4. Implementing and Troubleshooting Advanced Wireless Network Services

Lab Outline

1. Lab Familiarization (Base Learning Lab)
2. Configure Secure Management Access for WLCs and APs
3. Add Network Devices and External Resources to Cisco Prime Infrastructure
4. Customize Cisco Prime Infrastructure for Network Monitoring
5. Capture a Successful AP Authentication

6. Implement AAA Services for Central Mode WLANs
7. Implement AAA Services for FlexConnect Mode WLANs
8. Configure Guest Services in the Wireless Network
9. Configure Bring Your Own Device (BYOD) in the Wireless Network
10. Capture Successful Client Authentications
11. Configure QoS for Voice and Video Services
12. Configure Cisco AVC in the Wireless Network
13. Configure mDNS in the Wireless Network
14. Capture Successful QoS Traffic Marking
15. Configure, Detect, and Locate Services on Cisco CMX

Prerequisites

- General knowledge of networks and wireless networks
- Routing and switching knowledge