



CISCO TRAINING

Implementing Cisco Enterprise Wireless Networks (ENWLSI) 2.0

Master Cisco enterprise wireless network implementation. Learn advanced security, monitoring, and troubleshooting for robust Wi-Fi solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

The "Implementing Cisco Enterprise Wireless Networks (ENWLSI) 2.0" course is meticulously designed for network professionals aiming to master the intricacies of wireless network design, deployment, security, and troubleshooting within large-scale enterprise environments. This specialized training dives deep into Cisco's advanced wireless solutions, providing a comprehensive understanding of the Cisco Unified Wireless Network (CUWN) architecture, with a strong emphasis on the Catalyst 9800 Series Wireless Controllers and integration with Cisco DNA Center for unified management and automation. Participants will explore critical aspects of wireless network planning, including high-density deployments, FlexConnect architectures, and advanced mobility services, preparing them to build robust and scalable wireless infrastructures.

Throughout the program, you will gain hands-on expertise in implementing secure wireless access using protocols like WPA3, 802.1X, and integrating with Cisco Identity Services Engine (ISE). The course also covers advanced topics such as Quality of Service (QoS) for real-time applications, location-based services, and effective troubleshooting methodologies for complex wireless issues. By focusing on practical application and real-world scenarios, ENWLSI 2.0 equips you with the skills to optimize wireless performance, ensure seamless connectivity, and enhance the security posture of enterprise Wi-Fi networks.

Completing the ENWLSI 2.0 course not only validates your ability to deploy and manage advanced Cisco wireless solutions but also serves as a crucial component for achieving the prestigious CCNP Enterprise certification. This specialized knowledge makes you an invaluable asset in any organization that relies on cutting-edge wireless technology, opening doors to advanced career opportunities in network engineering and architecture by demonstrating your proficiency in designing, implementing, and optimizing modern enterprise wireless networks.

Duration	2 hours
Level	Intermediate
Vendor	Cisco

COURSE CURRICULUM

01 Module 1: Cisco Wireless Architecture and Design

- Cisco Unified Wireless Network (CUWN) Components
- Cisco Catalyst 9800 Series WLC Deployment Models
- Cisco DNA Center for Wireless Management and Assurance
- High-Density Wireless Design Considerations
- Converged Access and FlexConnect Architectures

02 Module 2: Advanced Wireless LAN Deployment

- Implementing FlexConnect and Efficient Wireless Access
- Wireless Mesh Networking Principles and Deployment
- Guest Access Solutions and Policy Enforcement
- Multicast and Bonjour Optimization over Wireless
- Application Visibility and Control (AVC) in Wireless Networks

03 Module 3: Wireless Security and Identity Management

- Advanced WPA3 and Enhanced Open Security Deployments
- 802.1X Authentication for Wireless Clients

- Cisco Identity Services Engine (ISE) Integration with Wireless
- Wireless Intrusion Prevention System (WIPS) Implementation
- Monitoring Wireless Security and Threats

04 Module 4: Wireless Network Performance and Mobility

- Quality of Service (QoS) for Voice and Video over Wireless
- RF Optimization Techniques and Interference Mitigation
- Advanced Client Roaming and Mobility Management
- Location-Based Services (LBS) and Analytics
- Monitoring and Tuning Wireless Performance

05 Module 5: Wireless Network Troubleshooting and Operations

- Troubleshooting Common Wireless Connectivity and Performance Issues
- Utilizing Cisco DNA Center for Proactive Monitoring and Assurance
- Wireless Packet Capture and Analysis Techniques
- WLC and Access Point Maintenance and Operational Best Practices
- Radio Resource Management (RRM) Troubleshooting

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Enterprise Wireless Network Engineer**
- > **Cisco Wireless Solutions Architect**
- > **Advanced Network Operations Specialist (Wireless Focus)**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge or certifications are recommended before enrolling in the Implementing Cisco Enterprise Wireless Networks (ENWLSI) 2.0 course?

To maximize your learning experience in ENWLSI 2.0, it is strongly recommended that participants have a solid understanding of basic networking concepts, including routing, switching, and general wireless fundamentals. Prior experience with Cisco enterprise networks and knowledge equivalent to the Cisco Certified Network Associate (CCNA) certification is highly beneficial. Familiarity with Cisco's Wireless LAN Controllers and access points, as covered in the 'Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)' course, will also provide a strong foundation.

Q: How does the ENWLSI 2.0 course prepare me for advanced troubleshooting and optimization of complex enterprise wireless environments?

The ENWLSI 2.0 course goes beyond basic configuration, delving into advanced topics such as RF optimization, troubleshooting client connectivity and performance issues, and utilizing sophisticated tools like Cisco DNA Center for proactive monitoring and assurance. You will learn to analyze wireless packet captures, diagnose common problems like interference and signal strength issues, and implement QoS strategies to prioritize critical applications, equipping you with the skills to effectively troubleshoot and optimize even the most complex enterprise wireless networks.

Q: What specific Cisco technologies will I gain hands-on experience with in the 'Implementing Cisco

Enterprise Wireless Networks (ENWLSI) 2.0' course?

This course provides extensive practical experience with key Cisco wireless technologies. You will work with Cisco Catalyst 9800 Series Wireless Controllers, understanding their various deployment modes and features. You'll also configure and manage various Cisco Access Point models. A significant focus is placed on leveraging Cisco DNA Center for unified wireless network management, automation, and assurance, giving you direct exposure to modern, software-defined networking tools for wireless.

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

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke