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**Learning Style: Virtual Classroom**

**Provider: Cisco**

**Difficulty: Intermediate**

**Course Duration: 5 Days**

## **Understanding Cisco Wireless Foundations (WLFNDU)**

### **About this course:**

The Understanding Cisco Wireless Foundations (WLFNDU) v1.0 is a five-day course which gives you the knowledge and skills you need to position, plan, implement, operate, and manage a Cisco® wireless LAN (WLAN) network. This course teaches you how to design, install, configure, monitor, and conduct basic troubleshooting tasks on a Cisco WLAN network of any size.

This course does not lead directly to a certification exam, but it does cover foundational knowledge that can help you prepare for professional-level enterprise wireless courses and exams:

### **Enterprise Wireless Courses:**

- Designing Cisco Enterprise Wireless Networks (ENWLSD)
- Implementing Cisco Enterprise Wireless Networks (ENWLSI)

### **Enterprise Wireless Exams:**

- 300-425 Designing Cisco Enterprise Wireless Networks (ENWLSD)
- 300-430 Implementing Cisco Enterprise Wireless Networks (ENWLSI)

### **Course Objective:**

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe and implement foundational wireless theory
- Describe and implement basic wireless security and client access
- Describe and implement a Cisco wireless network architecture
- Configure Cisco centralized wireless networks
- Describe and implement WLAN maintenance and troubleshooting

This course will help you:

- Learn the skills, technologies, and best practices needed to manage a Cisco WLAN network
- Understand and implement a Cisco wireless network architecture
- Design and implement WLAN maintenance and troubleshooting solutions

### **Audience:**

The primary audience for this course is as follows:

- Network engineer
- Systems engineer
- Wireless engineer
- Technical solutions architect
- Network administrator
- Wireless design engineer
- Network manager

### **Prerequisite:**

The knowledge and skills that a learner should have before attending this course are as follows:

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

### **Course Outline:**

**Describing and Implementing Foundational Wireless Theory**

**Describing and Implementing Foundational Wireless Math and Antennas**

**Describing and Implementing Foundational Wireless Operation**

**Describing and Implementing Basic Wireless Security**

**Describing and Implementing 802.1X and Extensible Authentication Protocol (EAP)**

**Implementing Wireless Guest Access and Configuring Wireless Security**

**Describing and Implementing Cisco Wireless Network Architecture**

**Describing and Implementing Cisco Wireless Network**

**Describing and Implementing Cisco Wireless Network Wired Support**

**Configuring Cisco Centralized Wireless Networks**

**Describing and Implementing WLAN Maintenance and Troubleshooting**

**Lab Outline:**

- Explore the Physics of Wi-Fi
- Explore the Wi-Fi Environment
- Analyze Wireless Frames
- Configure Client Access
- Configure the Wired Infrastructure
- Configure a Centralized Cisco Wireless LAN Controller (WLC) Deployment
- Configure a Centralized WLAN Deployment
- Configure an IPv6 Operation in a Centralized WLAN Deployment
- Optimize RF Conditions and Performance for Clients
- Perform Centralized Controller Maintenance
- Use Troubleshooting Tools

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