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Learning Style: Virtual Classroom

Technology: 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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