

Understanding Cisco Wireless Foundations

Description

This course 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.

Course Content

- 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 / Exercises

- Practice RF Math
- Antenna Calculations
- 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 on Cisco 3504 WLC
- Configure a Centralized WLAN Deployment on Cisco 9800 WLC
- Configure an IPv6 Operation in a Centralized WLAN Deployment
- Optimize RF Conditions and Performance for Clients
- Perform Centralized Controller Maintenance
- Use Troubleshooting Tools

Documentation

- Official digital CISCO courseware

Participant profiles

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

- Network manager

Prerequisites

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

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

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Classroom Registration Price (CHF)

4350

Virtual Classroom Registration Price (CHF)

4090

Duration (in Days)

5

Reference

CIS-WLFNDU