# Understanding Cisco Wireless Foundations (WLFNDU)

**ID** WLFNDU  **Price** 3,395.— €(excl. tax)  **Duration** 5 days

## Course Overview

The Understanding Cisco Wireless Foundations (WLFNDU) training teaches you the knowledge and skills you need to configure, manage, and troubleshoot a Cisco wireless LAN (WLAN) network. Topics include understanding critical aspects of RF technology, industry standards for Wi-Fi and security, how to design, install, and configure a WLAN network of any size, and using Cisco DNA Center.
This training also earns you 30 Continuing Education (CE) credits towards recertification.

## How You'll Benefit

This training 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

## Who should attend

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

## Prerequisites

Before taking this offering, you should have:

- General knowledge of networks
- General knowledge of wireless networks

- Routing and switching knowledge

We recommend prior attendance of the courses

- Wireless Fundamentals 1 (WFUN1) and Wireless Fundamentals 2 (WFUN2) or
- Certified Wireless Network Administrator - CWNA (CWNA)

## Course Objectives

- Describe and implement foundational wireless theory
- Describe and implement foundational wireless math and antennas
- Describe and implement foundational wireless operation including Wi-Fi 6
- Describe security and client access in a wireless network
- Implement 802.1X and Extensible Authentication Protocol (EAP)
- Implement wireless guest access and configure wireless security
- Describe Cisco wireless architecture components and deployment options
- Describe Cisco wireless architecture and its deployment modes, the Control and Provisioning of Wireless Access Points (CAPWAP) protocol, and the Cisco WLC and AP line up
- Describe the wired support for implementing wireless networks
- Deploy Cisco centralized wireless networks using Cisco 9800 WLC
- Describe the centralized wireless access model and its configuration
- Describe maintenance and troubleshooting in the centralized WLAN model
- Describe the management and monitoring of Cisco Wireless Networks with Cisco DNA Center

## Course Content

- Module 1: RF and WLAN Theory
- Module 2: WLAN Math and Antennas
- Module 3: Wi-Fi Operations
- Module 4: Basic WLAN Security
- Module 5: Advanced WLAN Security

- Module 6: Configuring WLAN Security
- Module 7: Cisco Wireless Network Architecture
- Module 8: Implementing Cisco Wireless Network
- Module 9: Implementing Cisco Wireless Network Wired Support
- Module 10: Deploying Cisco Centralized Wireless Networks
- Module 11: Configuring Cisco Centralized Wireless Networks
- Module 12: Maintaining and Troubleshooting Cisco Wireless Networks
- Module 13: Managing and Monitoring Cisco Wireless Networks with Cisco DNA Center

Our lab utilizes physical access points (9120, 3802) as well as physical wireless clients. This allows further exploration of the dashboard.

# About Fast Lane

Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

## Fast Lane Services
✓ High End Technology Training
✓ Business & Soft Skill Training
✓ Consulting Services
✓ Managed Training Services
✓ Digital Learning Solutions
✓ Content Development
✓ Remote Labs
✓ Talent Programs
✓ Event Management Services

## Training Methods
✓ Classroom Training
✓ Instructor-Led Online Training
✓ FLEX Classroom – Classroom & Online Hybrid
✓ Onsite & Customized Training
✓ E-Learning
✓ Blended & Hybrid Learning
✓ Mobile Learning

## Technologies & Solutions
✓ Digital Transformation
✓ Artificial Intelligence
✓ Cloud
✓ Networking
✓ Cyber Security
✓ Wireless & Mobility
✓ Modern Workplace
✓ Data Center

**Worldwide Presence**
with high-end training centers around the globe

**Multiple Awards**
from vendors such as AWS, Microsoft, Cisco, Google, NetApp, VMware

**Experienced SMEs**
with over 19.000 combined certifications

---

**Germany**
**Fast Lane Institute for Knowledge Transfer GmbH**
Tel. +49 40 25334610

info@flane.de / www.flane.de

**Austria**
**ITLS GmbH**
(Partner of Fast Lane)
Tel. +43 1 6000 8800

info@itls.at / www.itls.at

**Switzerland**
**Fast Lane Institute for Knowledge Transfer (Switzerland) AG**
Tel. +41 44 8325080

info@flane.ch / www.flane.ch