

# Cisco Wireless Troubleshooting Workshop (CWTWIFI6)

**ID** CWTWIFI6 **Price** 3,290.— €(excl. tax) **Duration** 4 days

## Course Overview

This hands-on workshop teaches troubleshooting skills specific to current Cisco wireless products.

It also teaches a variety of troubleshooting and identification methods, with a wide range of tools available to students.

In addition to the new Cisco Catalyst 9800 wireless controllers, AireOS controllers will also be covered.

Our lab is continually updated to provide you with the latest features.

## Who should attend

This course is aimed at wireless LAN technicians, wireless network engineers, L1 to L3 support staff and service providers in wireless LAN projects. The course is also suitable for anyone wishing to master wireless troubleshooting tools and methods.

## Prerequisites

Prerequisite is CCNA Wireless certification and/or basic knowledge of Routing & Switching, 802.11 Wireless, Cisco WLC, AP and Prime Infrastructure. Security knowledge is beneficial and recommended.

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

The course enables participants to optimize and troubleshoot enterprise wireless infrastructures.

Tools and methods for identifying and troubleshooting wireless clients (notebooks, tablets, smartphones, industrial clients, etc.) as well as wireless infrastructure (WLC, AP, AAA, PI, AD, etc.) are introduced and taught in theory and practice.

In detail, the following topics will be covered:

- Hardware and software architecture
- New Config Model
- Deployment Considerations
- Operation Monitoring
- Troubleshooting Basics
- Basics of 802.11 Wireless Frames
- Lifetime of a packet
- GUI Troubleshooting Dashboard
- Advanced Wireless Troubleshooting
- IOS-XE Tracing, Packet Capture & Packet Tracer
- Client Troubleshooting
- Embedded Packet Capture (EPC)
- Over The Air Capture
- Troubleshooting on the AP side
- CAPWAP Discovery and Join - Troubleshooting
- Intelligent Capture via DNA Center
- Anomaly Capture via DNA Center
- AAA and Security Troubleshooting
- Using Prime Infrastructure for Wireless Troubleshooting
- Using DNA Center for Wireless Troubleshooting
- QOS Troubleshooting
- Third-party tools for analysis and troubleshooting

## Course Content

### Identify Common Troubleshooting

- Network troubleshooting methods
- Network troubleshooting tools and resources

### Identifying Wireless Infrastructure Issues

- Troubleshooting client connectivity problems
- Troubleshooting client performance problems

### Identifying Core Wireless Infrastructure Issues

- Troubleshooting AP-to-controller problems



- Troubleshooting wired infrastructure problems
- Troubleshooting Cisco FlexConnect

#### **Identifying Wireless Security Issues**

- Troubleshooting Client Authentication Issues
- Troubleshooting Guest Access Problems
- Troubleshooting RF-related security threat issues

# 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.

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