

# FCP - Secure Wireless LAN Administrator

Duration: 2 Days

## COURSE DESCRIPTION

In this comprehensive 2-day course, you will master the deployment, configuration, and troubleshooting of secure wireless LAN solutions using Fortinet's integrated wireless technology. This hands-on training combines theoretical knowledge with practical application through interactive laboratory exercises that simulate real-world wireless network scenarios. The course focuses on FortiGate's integrated wireless controller capabilities, providing you with the skills to design, implement, and manage enterprise-grade wireless networks. You will learn to leverage FortiGate's centralized management approach to deploy secure, scalable wireless solutions that integrate seamlessly with existing network infrastructure. Through practical labs and real-world scenarios, you will gain expertise in wireless security protocols, access point management, mesh networking, and advanced wireless features.

## COURSE OBJECTIVES

Upon completion of this course, participants will be able to:

- Design comprehensive wireless network solutions using Fortinet technology
- Deploy secure wireless LANs with integrated FortiGate wireless controller management
- Configure advanced wireless security features including WPA3, 802.1X, and captive portals
- Implement scalable wireless architecture for enterprise environments
- Troubleshoot complex wireless connectivity and performance issues
- Optimize wireless network performance through proper configuration and monitoring
- Manage centralized wireless deployments using FortiGate wireless controller features
- Secure wireless networks against common threats and vulnerabilities
- Monitor wireless network performance and user connectivity
- Maintain wireless infrastructure for optimal performance and security

## COURSE OUTLINE

### 1) Fortinet Wi-Fi Fundamentals

- Overview
- Intro to Fortinet Wi-Fi Fundamentals
- Overview of Wi-Fi Fundamentals
- Radio Frequency (RF)
- Wireless LAN Basics
- 802.11 Wi-Fi Standards
- AP IDs

### 2) Fortinet Wireless Design

- Overview
- Intro to Fortinet Wireless Design
- Overview of Wireless Design
- Site Survey
- Fortinet Wireless Components
- Connecting APs
- FortiPresence

### 3) Creating Fortinet Wireless Networks

- Intro to Creating Fortinet WLANs
- Overview of Creating Fortinet WLANs
- Wi-Fi Maps
- Creating an SSID
- Connect a WiFi Client
- NAT and Firewall Policy for Wi-Fi Networks
- More WLANs and Bridge Mode Too

### 4) Fortinet AP Profiles

- Overview
- Intro to Fortinet AP Profiles
- Overview of AP Profiles
- Default AP Profile
- Custom AP Profile
- Rogue AP Overview
- WIDS and AP Profile for Rogue APs

### 5) Remote Fortinet Wireless LANs

- Overview
- Intro to Remote Fortinet APs
- Overview of Remote FortiAPs
- Remote AP Game Plan
- Create SSID for Remote APs
- Create AP Profile
- FGT NAT and Permissions
- Authorize AP and Local Testing
- Config-mode on AP for Discovery
- Testing the Remote AP

### 6) Fortinet Wireless Mesh

- Overview
- Intro to Fortinet Wireless Mesh
- Wireless Mesh Overview

### 7) Fortinet Mesh Design

- Create User WLAN
- Create Mesh SSID
- Create AP Profile for Mesh Root
- Prep and Test Mesh Leaf APs
- Point to Point Mesh Bridge