

Wi-Fi Hacking

Course Duration : 24 Hours

Course code : WIFI-HACK

1. Course Overview

The **Wi-Fi Hacking** course focuses on understanding wireless network security and identifying vulnerabilities in Wi-Fi networks. This course teaches how wireless attacks are performed, how to test Wi-Fi security legally, and how to secure wireless networks against common threats. It is designed for learning ethical and defensive techniques in a controlled environment.

2. What you'll learn?

- Wireless networking fundamentals
- Wi-Fi security protocols and encryption
- Common Wi-Fi attack techniques
- Password cracking methods
- Wireless monitoring and analysis
- Securing Wi-Fi networks

3. Target Audience

- Ethical hacking beginners
- Cybersecurity students
- Network administrators
- SOC analysts
- IT security enthusiasts

4. Pre-Requisites

- Basic networking knowledge
- Understanding of TCP/IP
- Familiarity with operating systems

5. Course Content (Modules)

Module 1: Wireless Networking Basics

- Wi-Fi standards and frequencies
- Wireless devices and adapters

Module 2: Wi-Fi Security Protocols

- WEP, WPA, WPA2, WPA3
- Authentication and encryption

Module 3: Wireless Reconnaissance

- Scanning wireless networks
- Capturing wireless traffic

Module 4: Wi-Fi Attack Techniques

- DE authentication attacks
- Handshake capturing

Module 5: Password Cracking

- Dictionary and brute-force attacks
- WPA/WPA2 cracking concepts

Module 6: Securing Wireless Networks

- Best security practices
- Monitoring and defense techniques