



**Logic Finder**  
Consulting, Development and Training

## **Penetration Testing with Hands-on Tools**

Instructor Led Live Virtual Class

Duration: 6 Day (20-30 hours) | Course Number: LF-Penetration Testing -200

### **Intended Audience**

This course is designed for professionals in the industry who need to develop a high-level understanding of penetration testing.

This course is ideal for anyone seeking a comprehensive, hands-on approach to learning penetration testing, from beginners in the cybersecurity field to IT professionals looking to specialize in security.

### **Duration: 12 Weeks**

#### **Week 1-2: Introduction to Penetration Testing**

Understanding the basics of penetration testing

Setting up a penetration testing lab

Introduction to Kali Linux

Theoretical concepts: Ethical hacking principles

#### **Week 3-4: Network Penetration Testing**

Network scanning techniques (using Nmap)

Identifying and exploiting vulnerabilities

Theoretical concepts: Network protocols and defenses

#### **Week 5-6: System Security and Exploitation**

System exploitation techniques

Using Metasploit for exploitation

Theoretical concepts: System security architecture

### **Week 7-8: Web Application Penetration Testing**

Testing web applications using OWASP ZAP and Burp Suite

Identifying common web vulnerabilities (SQL injection, XSS)

Theoretical concepts: Web application security

### **Week 9-10: Wireless Security and Social Engineering**

Wireless network hacking (using Air crack-ng)

Social engineering techniques and defenses

Theoretical concepts: Wireless protocols and security measures

### **Week 11-12: Reporting and Advanced Techniques**

Writing effective penetration testing reports

Advanced penetration testing tools and techniques

Theoretical concepts: Legal and ethical considerations in penetration testing