

# HANDS-ON PENETRATION TESTING WITH KALI LINUX

This Government Officials Training (GOT) program is a comprehensive, practical course designed to equip participants with the core methodologies and ethical principles of professional security testing, providing extensive hands-on experience with the Kali Linux toolset. Through a structured curriculum, participants will progress from reconnaissance and vulnerability identification to the exploitation of networks, operating systems, and web applications—with a focus on the OWASP top 10—while also learning to conduct wireless attacks such as WPA2 cracking and Evil Twin setups. The course further develops advanced skills in privilege escalation, maintaining access, and bypassing security controls, culminating in the ability to produce structured, actionable penetration testing reports, thereby preparing graduates to conduct thorough security assessments from start to finish.

## Target Audience

- Government Employees (State & Central)
- Officers working various LEAs

## Start Date

- 06 July 2026

## Course Duration

- 30 hours (2 hours/day)

## Mode of Delivery

- Virtual Instructor-Led Training (VILT)

## Assessment Type

- Multiple Choice Questions (Pass Criteria - 40%)

## Learning Outcomes

- Conduct professional penetration tests using industry-standard tools
- Exploit common vulnerabilities in Windows & Linux systems
- Perform web application security assessments (OWASP Top 10)
- Execute wireless attacks (WPA2 cracking, Evil Twin)
- Write structured penetration testing reports

## Syllabus

- Ethical Hacking Fundamentals
- Kali Linux Lab Setup & Essential Tools
- Passive Reconnaissance
- Active Scanning & Enumeration
- Metasploit Framework
- OWASP Top 10 & Burp Suite
- Linux Privilege Escalation
- Windows Privilege Escalation
- Bypassing Security Controls
- Reporting & Remediation

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