



PENETRATION TESTING

SCOPING . EXPLOITATION . POST-EXPLOITATION .
ACTIVE DIRECTORY . WEB . API .
REPORTING . RETESTING . DEBRIEF

DURATION

70 Hours

LEVEL

Advanced

MODULES

8

MODE

**Classroom •
Online • Hybrid**

01 COURSE OVERVIEW

A professional penetration testing course covering methodology, exploitation depth and client reporting. The course works to a formal methodology — PTES and OWASP — from scoping and rules of engagement through exploitation, lateral movement and evidence collection. Active Directory attack paths and API testing are given full modules.

Assessment is a complete client-style report on a multi-host lab, defended in a debrief session.

WHO IT IS FOR

Security analysts moving into offensive roles

Ethical hacking course graduates

SOC and blue team staff cross-training

Consultants delivering assessments

PREREQUISITES

Ethical hacking fundamentals, networking, Linux and basic scripting.

02 LEARNING OUTCOMES

01 Scope an engagement and agree rules of engagement.

03 Move laterally and escalate inside a domain.

05 Collect evidence without damaging systems.

07 Write and present a client-quality report.

02 Enumerate and exploit hosts systematically.

04 Test web applications and APIs to OWASP standards.

06 Rate findings with CVSS and business impact.

03 MODULE STRUCTURE

8 MODULES

01 METHODOLOGY AND SCOPING

PTES

Scope and exclusions

Time-boxing

OWASP testing guide

Legal agreements

Client communication

02 INFRASTRUCTURE ENUMERATION

Network mapping

Credential discovery

Service fingerprinting

Attack surface documentation

TOOLS

NMAP

CRACKMAPEXEC

NETEXEC

03 EXPLOITATION

Public exploits

Payload handling

Shell stabilisation

Manual exploitation

Antivirus considerations

TOOLS

METASPLOIT

MSFVENOM

04 POST-EXPLOITATION

Local enumeration

Credential dumping

Persistence

Privilege escalation

Pivoting

Cleanup

TOOLS

LINPEAS

WINPEAS

MIMIKATZ

05 ACTIVE DIRECTORY ATTACKS

Domain enumeration

AS-REP roasting

ACL paths

Kerberoasting

Delegation abuse

Domain persistence

TOOLS

BLOODHOUND

IMPACKET

06 WEB AND API TESTING

Authentication flaws

Business logic

JWT handling

Injection

IDOR

Rate limiting

TOOLS

BURP SUITE

POSTMAN

07 CLOUD AND CONTAINER NOTES

Cloud misconfiguration

Metadata services

Secret exposure

IAM abuse

Container escapes

08 REPORTING AND DEBRIEF

Evidence handling

Executive summary

Remediation plan

CVSS scoring

Technical detail

Retest cycle

PROJECT

FULL PENETRATION TEST REPORT AND DEBRIEF

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

PENETRATION TESTER

RED TEAM OPERATOR

SECURITY CONSULTANT

APPLICATION SECURITY ANALYST

OFFENSIVE SECURITY ENGINEER

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