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Course Name

Web Application Penetration Testing and Ethical Hacking

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Information Technology

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Web Application Penetration Testing and Ethical Hacking

Course Introduction

This training program provides participants with professional-level knowledge of web application penetration testing and ethical hacking methodologies.

This program focuses on identifying vulnerabilities, exploiting weaknesses ethically, and strengthening security controls to protect applications from cyber threats.

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Target Audience

Cybersecurity specialists, IT professionals, system administrators, penetration testers, and anyone involved in application security.

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Web Application Penetration Testing and Ethical Hacking

Learning Objectives

✓ Understand the penetration testing lifecycle.

✓ Identify common and advanced web vulnerabilities.

✓ Apply manual and automated testing methodologies.

✓ Use ethical hacking tools responsibly.

✓ Provide actionable security recommendations.

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Web Application Penetration Testing and Ethical Hacking

Course Outline

✓ DAY 01

Introduction to Penetration Testing

- ✓ Ethical hacking vs. malicious hacking.
- ✓ Penetration testing phases and methodologies.
- ✓ Reconnaissance and information gathering.
- ✓ Understanding HTTP, sessions, and cookies.
- ✓ Common web application architectures.
- ✓ Attack surfaces in modern web apps.
- ✓ Testing standards: OWASP, PTES.
- ✓ Legal and ethical considerations.

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Course Outline

✓ Day 02

Input Validation & Authentication Attacks

- ✓ SQL injection types and detection.
- ✓ Cross-site scripting vulnerabilities.
- ✓ Authentication bypass techniques.
- ✓ Session management attacks.
- ✓ Password cracking and brute-forcing.
- ✓ CSRF attack mechanisms.
- ✓ Testing API authentication.
- ✓ Impact assessment and reporting.

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Course Outline

✓ Day 03

Business Logic & Server-Side Attacks

- ✓ Business logic flaws identification.
- ✓ Broken access control exploitation.
- ✓ File upload vulnerabilities.
- ✓ Server configuration weaknesses.
- ✓ Directory traversal attacks.
- ✓ Remote code execution vulnerabilities.
- ✓ SSRF attacks and prevention.
- ✓ Detecting privilege escalation paths.

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Course Outline

✓ Day 04

Advanced Testing & Automation

- ✓ Using Burp Suite for testing.
- ✓ Automated scanning tools overview.
- ✓ Fuzzing techniques.
- ✓ API penetration testing.
- ✓ Testing microservices-based applications.
- ✓ Vulnerability chaining.
- ✓ Interpreting tool results accurately.
- ✓ Cloud-hosted application considerations.

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Web Application Penetration Testing and Ethical Hacking

Course Outline

✓ Day 05

Reporting, Mitigation & Best Practices

- ✓ Writing effective penetration testing reports.
- ✓ Mapping vulnerabilities to risk levels.
- ✓ Remediation strategies for common issues.
- ✓ Secure coding principles.
- ✓ Defense-in-depth strategies.
- ✓ Integrating security into SDLC.
- ✓ Continuous testing and DevSecOps.
- ✓ Best practices for long-term security posture.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 11, 2027	Jan. 15, 2027	5 days	4250.00 $	UAE , Abu Dhabi
April 26, 2027	April 30, 2027	5 days	4950.00 $	Spain , Madrid
July 19, 2027	July 23, 2027	5 days	2150.00 $	Virtual , Online
Dec. 20, 2026	Dec. 24, 2026	5 days	4250.00 $	KSA , Riyadh
Dec. 27, 2026	Dec. 31, 2026	5 days	4250.00 $	KSA , Riyadh
Sept. 13, 2027	Sept. 17, 2027	5 days	2150.00 $	Virtual , Online
May 2, 2027	May 6, 2027	5 days	4250.00 $	KSA , Riyadh

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