Pentest 667

Ultimate Lab Manual to Learn Network Pentesting

PENETRATION TESTING

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Program **Overview:**

The Advanced Penetration Testing with AI course offered by Craw Security, the foremost and international-standard cybersecurity training institute in India, is designed to provide participants with the skills and knowledge required to perform comprehensive security assessments of IT systems. This intensive program goes beyond the basics, delving into the advanced techniques and tools used by cybersecurity professionals to identify, evaluate, and mitigate vulnerabilities in a variety of environments.

Program **Features:**

- ✓ 60 hours of instructor-led training or Live VILT classes.
- ✓ Accredited by the FutureSkills Prime, Approved by the Government of India.
- ✓ The course will be in both English and Hindi mediums.
- ✓ Industry-leading cybersecurity experts with years of experience in penetration testing.
- ✓ Hands-on labs to learn with real-time problem-solving exercises.
- ✓ Cutting-edge curriculum to stay at the forefront of cybersecurity.
- ✓ Flexible Learning Options to choose from.
- ✓ Full implementation of AI fundamentals throughout the course curriculum.

Delivery **Mode:**

Online Bootcamp / Offline Classroom Training / Corporate Training Facility

Prerequisites of **Penetration Testing:**

Participants should have a foundational understanding of information security concepts and basic penetration testing skills. Familiarity with Linux and Windows operating systems, networking, and web technologies is recommended.

Target **Audience:**

- ✓ Security Officers
- ✓ Auditors
- ✓ Security Professionals
- ✓ Site Administrators
- ✓ Cybersecurity Professional
- ✓ IT Professional
- ✓ Information Security manager
- ✓ Network Administrator
- ✓ System Administrator
- ✓ Security Analyst
- ✓ Ethical Hackers
- ✓ IT Consultants

Key Learning **Outcomes:**

This Advanced Penetration Testing with AI course will help you

- ✓ **Penetration Testing:** Perform complex penetration tests in order to assess the security of IT systems.
- ✓ **Vulnerability Assessment:** Determine vulnerabilities in web applications, networks, and systems to compromise and exploit.
- ✓ **Introduction of AI in Penetration Testing:** Learners will hone their current pentesting knowledge with the basics of AI throughout the course curriculum, wherever it can be implemented by highly trained instructors.
- ✓ **Learn Methods To Prevent Data Breach:** Formulate all-encompassing methods to safeguard systems from potential breaches.
- ✓ **Report Making:** Produce and deliver comprehensive reports to stakeholders detailing findings and recommendations.
- ✓ **Ethical and Legal Considerations:** Comprehend the ethical and legal implications of performing penetration tests in accordance with industry regulations and standards.
- ✓ **Defensive Strategies:** Gain knowledge of defensive strategies and tactics in order to mitigate and fix discovered vulnerabilities, thereby fortifying cybersecurity postures as a whole.

Certification **Alignment:**

Our Advanced Penetration Testing with AI is genuinely accredited to the FutureSkills Prime, a MeitY — NASSCOM, Digital Skilling Initiative, and approved by the Government of India. Moreover, Craw Security is a proud partner of FutureSkills Prime. Learners will get this certificate from FutureSkills Prime after participating in a dedicated exam.

Certification **Details & Criteria:**

Upon successful completion of the course and passing the examination, participants will receive a certification from Craw Security. The examination assesses the participant's ability to apply Advanced Penetration Testing with AI techniques in a controlled environment. Specific criteria for certification include practical assessments and a theoretical exam.

About the **Exam:**

- ✓ **Number of Questions:** 35 to 40 Questions
- ✓ **Exam Provider**: FutureSkills Prime
- ✓ **Exam Test Duration:** 1 Hour
- ✓ **Test Format:** Multiple Choice Question (MCQ)
- ✓ **Exam Cost:** 600 Inclusive Taxes

Craw Security **Certification Criteria:**

- ✓ Attend 75% of classes and obtain 50% marks in the corresponding examination.
- ✓ Please note that there is an additional fee for the FutureSkills Prime exam related to this course.

100% Placement with 1 Year Cyber Security Course:

There is a specialized set of Terms and Conditions for a 100% Placement Guarantee with **our 1 Year Cybersecurity Diploma** that needs to be fulfilled by each and every student who is willing to benefit from features from Craw Security. However, we have jotted down all the necessary T&Cs that need to be completed to take the advantage of 100% Placement Guarantee from the Department of Training & Placement by Craw Security:

- ✓ Attendance of 75% should be mandatory.
- ✓ Marks for internal exams should be 80% mandatory.
- ✓ Fees for 1 Year Cybersecurity Diploma Course should be properly paid.
- ✓ Candidate can apply for a job after completion of 6 modules.
- ✓ A candidate is applicable for Mock Interviews/PD Class after completion of 3 modules.
- ✓ Global certifications are required, if needed by companies for jobs.
- ✓ Candidate should be Graduate/Pursuing.
- ✓ One-time job Assistance/Placement will be provided, if the candidate misses any interview, Craw Placement Cell will not be liable to re-arrange the interview, and also Craw Academy will not be liable for any refund or future litigations or claims.
- ✓ Package as per candidate's skills or according to company norms.
- ✓ Ideal Candidates can apply for multiple jobs.
- ✓ The Post Placement Process will be provided by the Placement Cell, highly known as the Department of Training and Placement, which is as follows:
  1. Documentation
  2. Offer Letter
  3. Joining Date/ Timeline of Joining

What to Choose After this Course:

A person can choose the **1 Year Cybersecurity Diploma Course** after the completion of this course, which is basically a 12-course bundle of cybersecurity by Craw Security whose maximum courses are accredited to the **FutureSkills Prime, a MeitY — NASSCOM,** Digital Skilling Initiative, and approved by the Government of India. After doing this course, a person would be eligible to choose from a variety of options for a fruitful professional career in the long run.

Course Curriculum:

Module 01: Welcome to the World of Penetration Testing

- ✓ Lesson 01: What is Advanced Penetration Testing (APT)
- ✓ Lesson 02: Types of Penetration Testing & Areas
- ✓ Lesson 03: Demo Report Understanding

Module 02: Supercharged Scanning with AI

- ✓ Lesson 01 : Scan All Top 20 Ports

Module 03: Exploitation Tactics Unleashed

- ✓ Lesson 01: Basics of Exploitations

Module 04: Command Line Adventures with AI

✓ Lesson 01: Basic of Linux Commands
✓ Lesson 02: Permission Commands

Module 05: Conquering Kali Linux Like a Pro

✓ Lesson 01: Introduction to Kali Linux

Module 06: Master Bash Scripting with AI

✓ Lesson 01: Introduction to Bash Scripting
✓ Lesson 02: Bash Scripting Fundamentals
✓ Lesson 03: Tool Creation - Password Generator
✓ Lesson 04: Functions

Module 07: AI-Powered Practical Tools

✓ Lesson 01: Essential Tools

Module 08: Active Information Gathering with AI

✓ Lesson 01: DNS Enumerations
✓ Lesson 02: Automating Lookups
✓ Lesson 03: DNS Zone Transfers
✓ Lesson 04: NMAP and Masscan
✓ Lesson 05: Port Enumeration

Module 09: Passive Information Gathering with AI

✓ Lesson 01: Website Recon
✓ Lesson 02: Netcraft, Shodan, Email Harvesting
✓ Lesson 03: OSINT Framework

Module 10: Buffer Overflow Fundamentals

✓ Lesson 01: Introduction of BOF
✓ Lesson 02: Basic Data Structure Understanding
✓ Lesson 03: Types of BOF

Module 11: Advanced Buffer Overflow Attacks

✓ Lesson 01: CTF on BOF

Module 12: Fixing Exploits with AI

✓ Lesson 01: CTF on Fixing Exploits

Module 13: Hunting Public Exploits with AI

✓ Lesson 01: Find Exploits on Google Hacking Database
✓ Lesson 02: Find Exploits on GitHub

Module 14: Mastering Antivirus Evasion with AI

- ✓ Lesson 01: Introduction to Antivirus Evasion
- ✓ Lesson 02: Working of Antivirus Evasion
- ✓ Lesson 03: Obfuscation Techniques

Module 15: Seamless File Transfers with AI

- ✓ Lesson 01: File Transfers Using FTP, Telnet, SSH, PHP, Python

Module 16: Windows Privilege Escalation Demystified

- ✓ Lesson 01: Service Exploits - Insecure Service Permissions
- ✓ Lesson 02: Service Exploits - Unquoted Service Path
- ✓ Lesson 03: Service Exploits - Weak Registry Permissions
- ✓ Lesson 04: Service Exploits - Insecure Service Executables
- ✓ Lesson 05: Registry – Auto Runs, etc.

Module 17: Linux Privilege Escalation Tactics

- ✓ Lesson 01: Service Exploits
- ✓ Lesson 02: Weak File Permissions - Readable /etc/shadow
- ✓ Lesson 03: Weak File Permissions - Writable /etc/shadow
- ✓ Lesson 04: Weak File Permissions - Writable /etc/passwd
- ✓ Lesson 05: Sudo - Shell Escape Sequences, etc.

Module 18: Cracking Passwords with AI

- ✓ Lesson 01: Password Spraying and Dictionary Attack

Module 19: Port Redirection and Tunneling with AI

- ✓ Lesson 01: Port Redirection and Tunneling Using Chisel

Module 20: Active Directory Attacks with AI

- ✓ Lesson 01: Introduction of AD
- ✓ Lesson 02: Basics of AD
- ✓ Lesson 03: Enumeration of AD

Module 21: Power Shell Empire

- ✓ Lesson 01: Introduction of Empire
- ✓ Lesson 02: Getting Shell Using Empire

Module 22: The Labs - Real-World Challenges

- ✓ Lesson 01: Introduction to Penetration Testing Labs
- ✓ Lesson 02: Hands-On Practice

Module 23: Penetration Test Breakdown

- ✓ Lesson 01: Understanding Penetration Test Reports
- ✓ Lesson 02: Debriefing and Recommendations

Module 24: Crafting Killer Penetration Test Reports

✓ Lesson 01: Proof of Concept (POC)
✓ Lesson 02: Executive and Management Report
✓ Lesson 03: Technical Report For IT and security Department

About **us:**

Craw Security is India's leading cybersecurity training institute, dedicated to developing the next generation of cybersecurity professionals. With a focus on practical, hands-on training, we offer a wide range of courses tailored to all skill levels. Our mission is to enhance the cybersecurity posture of individuals and organizations worldwide.

For more information, please visit our course page website:
https://www.craw.in/penetration-testing-course-in-delhi/

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