CEH V13: AI POWERED TRAINING SYLLABUS

Techonquer Cybersecurity Education

Welcome to the CEH v13 AI-Powered Training Program at Techonquer! This syllabus provides a comprehensive overview of the course, designed to equip you with the latest ethical hacking skills and knowledge. Our training integrates cutting-edge AI technologies to enhance your learning experience and prepare you for the challenges of modern cybersecurity.

Total Duration: 40 Hours

Mode: Instructor-Led Online Training

Certification: Certified Ethical Hacker (CEH)

Module Overview

Module 01: Introduction to Ethical Hacking

- Ethical Hacking Overview
- Security Threats and Attack Vectors
- Hacking Concepts and Phases
- Ethical Hacking Laws and Standards

Module 02: Footprinting and Reconnaissance

- Footprinting Concepts
- Footprinting through Search Engines
- Web Services and Social Networking Sites
- Footprinting Tools

Module 03: Scanning Networks

- Scanning Methodologies
- TCP Connect Scan
- SYN Stealth Scan
- Xmas Scan
- Scanning Tools

Module 04: Enumeration

- Enumeration Techniques
- NetBIOS Enumeration
- SNMP Enumeration
- NTP Enumeration
- LDAP Enumeration

Module 05: Vulnerability Analysis

- Vulnerability Assessment Concepts
- Vulnerability Scanning Tools
- Interpreting Vulnerability Scan Results

Module 06: System Hacking

- System Hacking Methodology
- Password Cracking Techniques
- Privilege Escalation
- Covering Tracks

Module 07: Malware Threats

- Malware Overview
- Types of Malware
- Malware Analysis Techniques
- Malware Countermeasures

Module 08: Sniffing

- Sniffing Concepts
- ARP Poisoning
- MAC Flooding
- Sniffing Tools
- Sniffing Countermeasures

Module 09: Social Engineering

- Social Engineering Techniques
- Identifying Social Engineering Attacks
- Social Engineering Countermeasures

Module 10: Denial-of-Service

- DoS/DDoS Attacks
- DDoS Attack Techniques
- DDoS Countermeasures

Module 11: Session Hijacking

- Session Hijacking Concepts
- Session Hijacking Techniques
- Session Hijacking Countermeasures

Module 12: Evading IDS, Firewalls, and Honeypots

- IDS, Firewall, and Honeypot Concepts
- Evasion Techniques
- Countermeasures

Module 13: Hacking Web Servers

- Web Server Hacking Methodology
- Web Server Vulnerabilities
- Web Server Countermeasures

Module 14: Hacking Web Applications

- Web Application Hacking
- SQL Injection
- Cross-Site Scripting (XSS)
- Web Application Countermeasures

Module 15: SQL Injection

- SQL Injection Attacks
- Types of SQL Injection
- SQL Injection Countermeasures

Module 16: Hacking Wireless Networks

- Wireless Network Concepts
- Wireless Hacking Methodology
- Wireless Hacking Tools
- Wireless Security Countermeasures

Module 17: Hacking Mobile Platforms

- Mobile Platform Concepts
- Mobile Hacking Methodology
- Mobile Security Countermeasures

Module 18: IoT Hacking

- IoT Concepts
- IoT Hacking Methodology
- IoT Security Countermeasures

Module 19: Cloud Computing

- Cloud Computing Concepts
- Cloud Security Threats
- Cloud Security Countermeasures

Module 20: Cryptography

- Cryptography Concepts
- Encryption Algorithms
- Cryptography Tools
- Cryptography Attacks

Module 21: Active Directory Attacks & Defense

- Active Directory Concepts
- AD Enumeration Techniques
- Kerberos Attacks (Pass-the-Ticket, Golden Ticket, Silver Ticket)
- Pass-the-Hash Attacks
- Privilege Escalation in AD
- Lateral Movement Techniques
- AD Persistence Techniques
- AD Security Best Practices & Hardening

Course Highlights

- **Hands-On Labs:** Gain practical experience through real-world scenarios and hands-on labs.
- **Expert Instructors:** Learn from certified and experienced cybersecurity professionals.
- **Comprehensive Coverage:** Master the latest ethical hacking techniques and tools.
- **Certification Preparation:** Prepare for the CEH v13 certification exam.

Next Steps

Ready to embark on your ethical hacking journey? Contact Techonquer today to enroll in the CEH v13 – AI Powered Training Program and take the first step towards becoming a certified ethical hacker!