

CEH - CERTIFIED ETHICAL HACKER WITH AI - EC-Council

EC-Council - Offensive Cybersecurity - Cyber Security

Durata:

5 Giorni

Lingue:

Italiano

Certificazione:

CEH v13 AI

Descrizione del corso

The CEH v13 course is based on artificial intelligence and is the world's first ethical hacking certification to harness the power of artificial intelligence. It teaches AI-based techniques to increase cyber defense efficiency by 40% while streamlining your workflow.

The new curriculum has been updated and enriched with content to better master the latest attack techniques and learn the latest trends in countermeasures.

Focus:

The course features a highly interactive training program that demonstrates how to scan, test, and hack systems to make them more secure. Labs and practical exercises are designed to provide in-depth knowledge combined with hands-on experience with fundamental security systems.

The course delves into the future of cybersecurity with training that integrates artificial intelligence into all phases of ethical hacking.

A first, important phase is dedicated to understanding how perimeter defenses work, and scanning and attacks on your networks will be demonstrated and conducted.

A second phase focuses on the techniques used by intruders to escalate privileges and the steps that can be taken to secure a system.

Specific in-depth studies are dedicated to intrusion detection, policy creation, social engineering, DDoS attacks, buffer overflows, and virus creation.

Prerequisites:

- Knowledge of TCP/IP
- Basic Knowledge of Windows operative system
- Basic Knowledge of Linux operative system

ITCore Group

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Programma

- **Module 01: Introduction to Ethical Hacking**

Learn the fundamentals and key issues in information security, including the basics of ethical hacking, information security controls, relevant laws, and standard procedures.

- **Module 02: Footprinting and Reconnaissance**

Learn how to use the latest techniques and tools for footprinting and reconnaissance, a critical pre-attack phase of ethical hacking

- **Module 03: Scanning Networks**

Learn different network scanning techniques and countermeasures.

- **Module 04: Enumeration**

Learn various enumeration techniques, including Border Gateway Protocol (BGP) and Network File Sharing (NFS) exploits and associated countermeasures.

- **Module 05: Vulnerability Analysis**

Learn how to identify security loopholes in a target organization's network, communication infrastructure, and end systems. Different types of vulnerability assessment and vulnerability assessment tools are also included.

- **Module 06: System Hacking**

Learn about the various system hacking methodologies used to discover system and network vulnerabilities, including steganography, steganalysis attacks, and how to cover tracks.

- **Module 07: Malware Threats**

Learn about different types of malware (Trojan, viruses, worms, etc.), APT and fileless malware, malware analysis procedures, and malware countermeasures.

- **Module 08: Sniffing**

Learn about packet sniffing techniques and their uses for discovering network vulnerabilities, plus countermeasures to defend against sniffing attacks.

- **Module 09: Social Engineering**

Learn social engineering concepts and techniques, including how to identify theft attempts, audit human-level vulnerabilities, and suggest social engineering countermeasures.

- **Module 10: Denial-of-Service**

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Learn about different Denial of Service (DoS) and Distributed DoS(DDoS) attack techniques, plus the tools used to audit a target and devise DoS and DDoS countermeasures and protections.

- **Module 11: Session Hijacking**

Learn the various session-hijacking techniques used to discover network-level session management, authentication, authorization, and cryptographic weaknesses and associated countermeasures.

- **Module 12: Evading IDS, Firewalls, and Honeypots**

Learn about firewalls, intrusion detection systems (IDS), and honeypot evasion techniques; the tools used to audit a network perimeter for weaknesses; and countermeasures.

- **Module 13: Hacking Web Servers**

Learn about web server attacks, including a comprehensive attack methodology used to audit vulnerabilities in web server infrastructures and countermeasures.

- **Module 14: Hacking Web Applications**

Learn about web application attacks, including a comprehensive hacking methodology for auditing vulnerabilities in web applications and countermeasures.

- **Module 15: SQL Injection**

Learn about SQL injection attack techniques, evasion techniques, and SQL injection countermeasures.

- **Module 16: Hacking Wireless Networks**

Learn about different types of encryption, threats, hacking methodologies, hacking tools, security tools, and countermeasures for wireless networks.

- **Module 17: Hacking Mobile Platforms**

Learn mobile platform attack vectors, Android and iOS hacking, mobile device management, mobile security guidelines, and security tools.

- **Module 18: IoT Hacking**

Learn different types of Internet of Things (IoT) and operational technology (OT) attacks, hacking methodologies, hacking tools, and countermeasures.

- **Module 19: Cloud Computing**

Learn different cloud computing concepts, such as container technologies and serverless computing, various cloud computing threats, attacks, hacking methodologies, and cloud security

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techniques and tools.

- **Module 20: Cryptography**

Learn about encryption algorithms, cryptography tools, Public Key Infrastructure (PKI), email encryption, disk encryption, cryptography attacks, and cryptanalysis tools.

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