

Certified Ethical Hacker CEH

A Certified Ethical Hacker is a specialist typically working in a red team environment, focused on attacking computer systems and gaining access to networks, applications, databases, and other critical data on secured systems. A C|EH® understands attack strategies, the use of creative attack vectors, and mimics the skills and creativity of malicious hackers. Unlike malicious hackers and actors, Certified Ethical Hackers operate with permission from the system owners and take all precautions to ensure the outcomes remain confidential. Bug bounty researchers are expert ethical hackers who use their attack skills to uncover vulnerabilities in the systems.

Exam:

C|EH® ANSI

- 4 hours

C|EH® Practical

- 6 Hours

Duration:

5 Days (40 hours)

Target Audience:

- Mid-Level Information Security Auditor
- Cybersecurity Auditor
- Security Administrator
- IT Security Administrator
- Cyber Defense Analyst
- Vulnerability Assessment Analyst
- Warning Analyst
- Information Security Analyst 1



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- Security Analyst L1
- Infosec Security Administrator
- Cybersecurity Analyst level 1, level 2, & level 3 • Network Security Engineer
- SOC Security Analyst
- Security Analyst
- Network Engineer
- Senior Security Consultant
- Information Security Manager • Senior SOC Analyst
- Solution Architect
- Cybersecurity Consultant

Learning Objectives:

Module 1:

Introduction to Ethical Hacking

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

Module 2:

Foot Printing and Reconnaissance

Learn how to use the latest techniques and tools to perform foot printing and reconnaissance, a critical pre-attack phase of the ethical hacking process.

Module 3:

Scanning Networks

Learn different network scanning techniques and countermeasures.



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Module 4:

Enumeration

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

Module 5:

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.

Module 6:

System Hacking

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

Module 7:

Malware Threats

Learn different types of malware (Trojan, virus, worms, etc.), APT and fileless malware, malware analysis procedure, and malware countermeasures.

Module 8:

Sniffing

Learn about packet-sniffing techniques and how to use them to discover network vulnerabilities, as well as countermeasures to defend against sniffing attacks.



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Module 9:

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

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

Module 11:

Session Hijacking

Understand 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

Get introduced to firewall, intrusion detection system (IDS), and honeypot evasion techniques; the tools used to audit a network perimeter for weaknesses; and countermeasures.

Module 13:



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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 web application hacking methodology used to audit vulnerabilities in web applications and countermeasures.

Module 15:

SQL Injection

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

Module 16:

Hacking Wireless Networks

Understand different types of wireless technologies, including encryption, threats, hacking methodologies, hacking tools, Wi-Fi security tools, and countermeasures.

Module 17:

Hacking Mobile Platforms

Learn Mobile platform attack vector, android and iOS hacking, mobile device management, mobile security guidelines, and security tools.

Module 18:

IoT and OT Hacking

Learn different types of IoT and OT attacks, hacking methodology, hacking tools, and countermeasures.



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Module 19:

Cloud Computing

Learn different cloud computing concepts, such as container technologies and server less computing, various cloud computing threats, attacks, hacking methodology, and cloud security 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.