

20 Modules that Help You Master the Foundations of Ethical Hacking and Prepare You to Challenge the C|EH Certification Exam

Module 01: Introduction to Ethical Hacking

Learn 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 02: Footprinting and Reconnaissance

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

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 included as well.

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

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 firewall, intrusion detection system (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 web application hacking methodology used to audit 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 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.