# C|EH v13

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

Information Security Overview Hacking Concepts and Hacker Classes Ethical Hacking Concepts Hacking Methodologies and Frameworks Information Security Controls Information Security Laws and Standards

#### Module 02: Footprinting and Reconnaissance

Footprinting Concepts Footprinting through Search Engines Footprinting through Internet Research Services Footprinting through Social Networking Sites Whois Footprinting DNS Footprinting Network and Email Footprinting Footprinting through Social Engineering Footprinting Tasks using Advanced Tools and AI Footprinting Countermeasures

#### Module 03: Scanning Networks

Network Scanning Concepts Host Discovery Port and Service Discovery OS Discovery Scanning Beyond IDS and Firewall Network Scanning Countermeasures

#### Module 04: Enumeration

Enumeration Concepts NetBIOS Enumeration SNMP and LDAP Enumeration NTP and NFS Enumeration SMTP and DNS Enumeration Other Enumeration Techniques Enumeration Countermeasures

## Module 05: Vulnerability Analysis

Vulnerability Assessment Concepts Vulnerability Assessment Tools Vulnerability Assessment Reports

#### Module 06: System Hacking

Gaining Access Escalating Privileges Maintaining Access Clearing Logs

## Module 07: Malware Threats

Malware and APT Concepts Fileless Malware Concepts Al-based Malware Concepts Malware Analysis Malware Countermeasures

#### Module 08: Sniffing

Sniffing Concepts Sniffing Techniques Sniffing Tools Sniffing Countermeasures

## **Module 09: Social Engineering**

Social Engineering Concepts Human-based Social Engineering Techniques Computer-based Social Engineering Techniques Mobile-based Social Engineering Techniques Social Engineering Countermeasures

#### Module 10: Denial-of-Service

DoS/DDoS Concepts DoS/DDoS Attack Techniques DoS/DDoS Attack Countermeasures

#### Module 11: Session Hijacking

Session Hijacking Concepts Application-Level Session Hijacking Network-Level Session Hijacking Session Hijacking Countermeasures

#### Module 12: Evading IDS, Firewalls, and Honeypots

IDS, IPS, and Firewall Concepts

IDS, IPS, and Firewall Solutions Evading IDS/Firewalls Evading NAC and Endpoint Security Honeypot Concepts and Detecting Honeypots IDS/Firewall Evasion Countermeasures

## **Module 13: Hacking Web Servers**

Web Server Concepts Web Server Attacks Web Server Attack Methodology Web Server Attack Countermeasures

## Module 14: Hacking Web Applications

Web Application Concepts Web Application Threats Web Application Hacking Methodology Web API and Webhooks Web Application Security

## Module 15: SQL Injection

SQL Injection Concepts Types of SQL Injection SQL Injection Methodology Evasion Techniques SQL Injection Countermeasures

## **Module 16: Hacking Wireless Networks**

Wireless Concepts

Wireless Encryption Wireless Threats Wireless Hacking Methodology Wireless Attack Countermeasures

## Module 17: Hacking Mobile Platforms

Mobile Platform Attack Vectors Hacking Android OS Hacking iOS Mobile Device Management Mobile Security Guidelines and Tools

## Module 18: IoT and OT Hacking

IoT Concepts and Attacks IoT Hacking Methodology IoT Attack Countermeasures OT Concepts and Attacks OT Hacking Methodology OT Attack Countermeasures

## Module 19: Cloud Computing

- Cloud Computing Concepts Cloud Computing Threats Cloud Hacking AWS Hacking Microsoft Azure Hacking Google Cloud Hacking Container Hacking
- Cloud Security

## Module 20: Cryptography

Cryptography Concepts and Encryption Algorithms Applications of Cryptography Cryptanalysis Methods and Cryptography Attacks Cryptography Attack Countermeasures