

EC-Council



Certified Ethical Hacker

Program Brochure

Course Description

The Certified Ethical Hacker (CEH) program is the core of the most desired information security training system any information security professional will ever want to be in. The CEH, is the first part of a 3 part EC-Council Information Security Track which helps you master hacking technologies. You will become a hacker, but an ethical one!

As the security mindset in any organization must not be limited to the silos of a certain vendor, technologies or pieces of equipment,

This course was designed to provide you with the tools and techniques used by hackers and information security professionals alike to break into an organization. As we put it, "To beat a hacker, you need to think like a hacker". This course will immerse you into the Hacker Mindset so that you will be able to defend against future attacks. It puts you in the driver's seat of a hands-on environment with a systematic ethical hacking process.

Here, you will be exposed to an entirely different way of achieving optimal information security posture in their organization; by hacking it! You will scan, test, hack and secure your own systems. You will be thought the Five Phases of Ethical Hacking and thought how you can approach your target and succeed at breaking in every time! The five phases include Reconnaissance, Gaining Access, Enumeration, Maintaining Access, and covering your tracks.

The tools and techniques in each of these five phases are provided in detail in an encyclopedic approach to help you identify when an attack has been used against your own targets. Why then is this training called the Certified Ethical Hacker Course? This is because by using the same techniques as the bad guys, you can assess the security posture of an organization with the same approach these malicious hackers use, identify weaknesses and fix the problems before they are identified by the enemy, causing what could potentially be a catastrophic damage to your respective organization.

Throughout the CEH course, you will be immersed in a hacker's mindset, evaluating not just logical, but physical security.



Target Audience



This course will significantly benefit security officers, auditors, security professionals, site administrators, and anyone who is concerned about the integrity of their network infrastructure.



Duration

5 days (9:00 – 5:00)

Certification



The Certified Ethical Hacker exam 312-50 may be taken on the last day of the training (optional). Students need to pass the online exam to receive CEH certification.



Exam Details

Exam Title: Certified Ethical Hacker v9 (ANSI)

Exam Code: 312-50 (ECC EXAM), 312-50 (VUE)

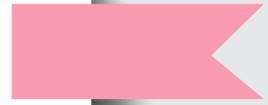
Number of Questions: 125

Duration: 4 hours

Availability: VUE / ECCEXAM

Test Format: Multiple Choice

Passing Score: 70%





Legal Agreement

Ethical Hacking and Countermeasures course mission is to educate, introduce and demonstrate hacking tools for penetration testing purposes only. Prior to attending this course, you will be asked to sign an agreement stating that you will not use the newly acquired skills for illegal or malicious attacks and you will not use such tools in an attempt to compromise any computer system, and to indemnify EC-Council with respect to the use or misuse of these tools, regardless of intent.

Not anyone can be a student - the Accredited Training Centers (ATC) will make sure the applicants work for legitimate companies.



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CEHv9 Recognition / Endorsement / Mapping



The National Initiative for Cybersecurity Education (NICE)



American National Standards Institute (ANSI)



Committee on National Security Systems (CNSS)



United States Department of Defense (DoD)



National Infocomm Competency Framework (NICF)



Department of Veterans Affairs



KOMLEK



MSC



What is New in the CEHV9 Course?

This is the worlds most advanced ethical hacking course with 18 of the most current security domains any ethical hacker will ever want to know when they are planning to beef up the information security posture of their organization. In 18 comprehensive modules, the course covers over 270 attack technologies, commonly used by hackers.

Our security experts have designed over 140 labs which mimic real time scenarios in the course to help you “live” through an attack as if it were real and provide you with access to over 2200 commonly used hacking tools to immerse you into the hacker world.

As “a picture tells a thousand words”, our developers have all this and more for you in over 2200 graphically rich, specially designed slides to help you grasp complex security concepts in depth which will be presented to you in 5 day hands on class by our Certified Instructor.

The goal of this course is to help you master an ethical hacking methodology that can be used in a penetration testing or ethical hacking situation. You walk out the door with ethical hacking skills that are highly in demand, as well as the globally recognized Certified Ethical Hacker certification! This course prepares you for EC-Council Certified Ethical Hacker exam 312-50.

In short, you walk out the door with hacking skills that are highly in demand, as well as the internationally recognized Certified Ethical Hacker certification!



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Course Outline Version 9

CEHV9 consists of 20 core modules designed to facilitate a comprehensive ethical hacking and penetration testing training.

Introduction to
Ethical Hacking

Footprinting and
Reconnaissance

Scanning
Networks

Enumeration

System Hacking

Malware
Threats

Evading IDS,
Firewalls and
Honeypots

Sniffing

Social
Engineering

Denial of
Service

Session
Hijacking

Hacking
Web servers

Hacking Web
Applications

SQL Injection

Hacking Wireless
Networks

Hacking Mobile
Platforms

Cloud
Computing

Cryptography



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What will you learn?

Students going through CEH training will learn:

01

Key issues plaguing the information security world, incident management process, and penetration testing

02

Various types of footprinting, footprinting tools, and countermeasures

03

Network scanning techniques and scanning countermeasures

04

Enumeration techniques and enumeration countermeasures

05

System hacking methodology, steganography, steganalysis attacks, and covering tracks

06

Different types of Trojans, Trojan analysis, and Trojan countermeasures

07

Working of viruses, virus analysis, computer worms, malware analysis procedure, and countermeasures

08

Packet sniffing techniques and how to defend against sniffing

09

Social Engineering techniques, identify theft, and social engineering countermeasures

10

DoS/DDoS attack techniques, botnets, DDoS attack tools, and DoS/DDoS countermeasures



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11

Session hijacking techniques and countermeasures

12

Different types of webserver attacks, attack methodology, and countermeasures

13

Different types of web application attacks, web application hacking methodology, and countermeasures

14

SQL injection attacks and injection detection tools

15

Wireless Encryption, wireless hacking methodology, wireless hacking tools, and wi-fi security tools

16

Mobile platform attack vector, android vulnerabilities, jailbreaking iOS, windows phone 8 vulnerabilities, mobile security guidelines, and tools

17

Firewall, IDS and honeypot evasion techniques, evasion tools, and countermeasures

18

Various cloud computing concepts, threats, attacks, and security techniques and tools

19

Different types of cryptography ciphers, Public Key Infrastructure (PKI), cryptography attacks, and cryptanalysis tools

20

Various types of penetration testing, security audit, vulnerability assessment, and penetration testing roadmap



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