EC-Council Certified Ethical Hacking (CEH)

ID CEH **Price** CHF 5,500.—(excl. VAT) **Duration** 5 days

Who should attend

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

Prerequisites

To be eligible to challenge the EC-Council CEH certification examination, the candidate has two options:

Attend Official Network Security Training by EC-Council:

If a candidate has completed an official EC-Council training either at an Accredited Training Center, via the iClass platform, or at an approved academic institution, the candidate is eligible to challenge the relevant EC-Council exam without going through the application process.

Attempt the Exam without Official EC-Council Training:

In order to be considered for the EC-Council CEH exam without attending official network security training, the candidate must have at least 2 years of work experience in the Information Security domain. If the candidate has the required work experience, they can submit an eligibility application form along with US$?100.—, a non-refundable fee

Course Objectives

The C|EH® v12 program helps you develop real-world experience in ethical hacking through the hands-on C|EH® practice environment. The C|EH® Engage equips you with the skills to prove that you have what it takes to be a great ethical hacker. New to C|EH® v12, students will embark on their first emulated ethical hacking engagement. This 4-phase engagement requires students to think critically and test the knowledge and skills gained by capturing a series of flags in each phase, demonstrating the live application of skills and abilities in a consequence-free environment through EC-Council's new Cyber Range. As you complete your training and hands-on labs, the C|EH® Engage lets you apply everything you have learned in a mock ethical hacking engagement. This 4-part security engagement gives you a real ethical hacking engagement experience from start to finish against an emulated organization. Using our capture-the-flag-style range, you will complete your engagement by answering "flag" questions as you progress.

Your Mission

Whether this is your first engagement or you're honing your skills, get ready to test your ethical hacking knowledge like never before! Once you've practiced through the hands-on guided labs, it's time to apply your knowledge, take on the hacker persona, and find the vulnerabilities and weaknesses in ABCDorg—all built in our C|EH® Engage (practice range).

Objectives:

Armed with your attack platform, Parrot OS, and a plethora of tools used by Ethical Hackers, you will embark on a 4-part engagement to assess ABCDorg's security posture. Follow the process, practice your TTP and experience the real thing in a controlled environment with no consequences, just the ultimate learning experience to support your career as an Ethical Hacker! Each phase builds on the last as you progress through your ABCDorg's

engagement.

PHASE 1 Vulnerability Assessment

- Foot Printing &
- Reconnaissance
- Scanning
- Enumeration
- Vulnerability Analysis

PHASE 2 Gaining Access

- System Hacking
- Malware Threats
- Sniffing
- Social Engineering
- Denial-of-Service

PHASE 3 Perimeter and Web App Exploitation

- Session Hijacking
- Evading IDS
- Firewalls
- Honeypots
- Hacking Web Servers
- Hacking Web Applications
- SQL Injection

PHASE 4 Mobile, IoT, OT Exploitation

- Hacking Wireless Networks
- Hacking Mobile Platforms
- IoT Hacking
- OT Hacking
- Cloud Computing
- Cryptography

Course Content

The C|EH® v12 training program includes 20 modules covering various technologies, tactics, and procedures, providing prospective ethical hackers with the core knowledge needed to thrive in cybersecurity. Delivered through a carefully curated training plan that typically spans five days, the 12th version of the C|EH® continues to evolve to keep up with the latest OS, exploits, tools, and techniques. The concepts covered in the training program are split 50/50 between knowledge-based training and hands-on application through our cyber range.Every tactic discussed in training is backed by step-by-step labs conducted in a virtualized environment with live targets, live tools, and vulnerable systems. Through our lab technology, every participant will have comprehensive hands-on practice to learn and apply their knowledge.

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

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.

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.

Scanning Networks

Learn different network scanning techniques and countermeasures.

Enumeration

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

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.

System Hacking

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

Malware Threats

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

Sniffing

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

Social Engineering

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

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.

Session Hijacking

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

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.

Hacking Web Servers

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

Hacking Web Applications

Learn about web application attacks, including a comprehensive web application hacking methodology used to audit vulnerabilities in web applications and countermeasures.

SQL Injection

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

Hacking Wireless Networks

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

Hacking Mobile Platforms

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

IoT Hacking

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

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.

Session Hijacking

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

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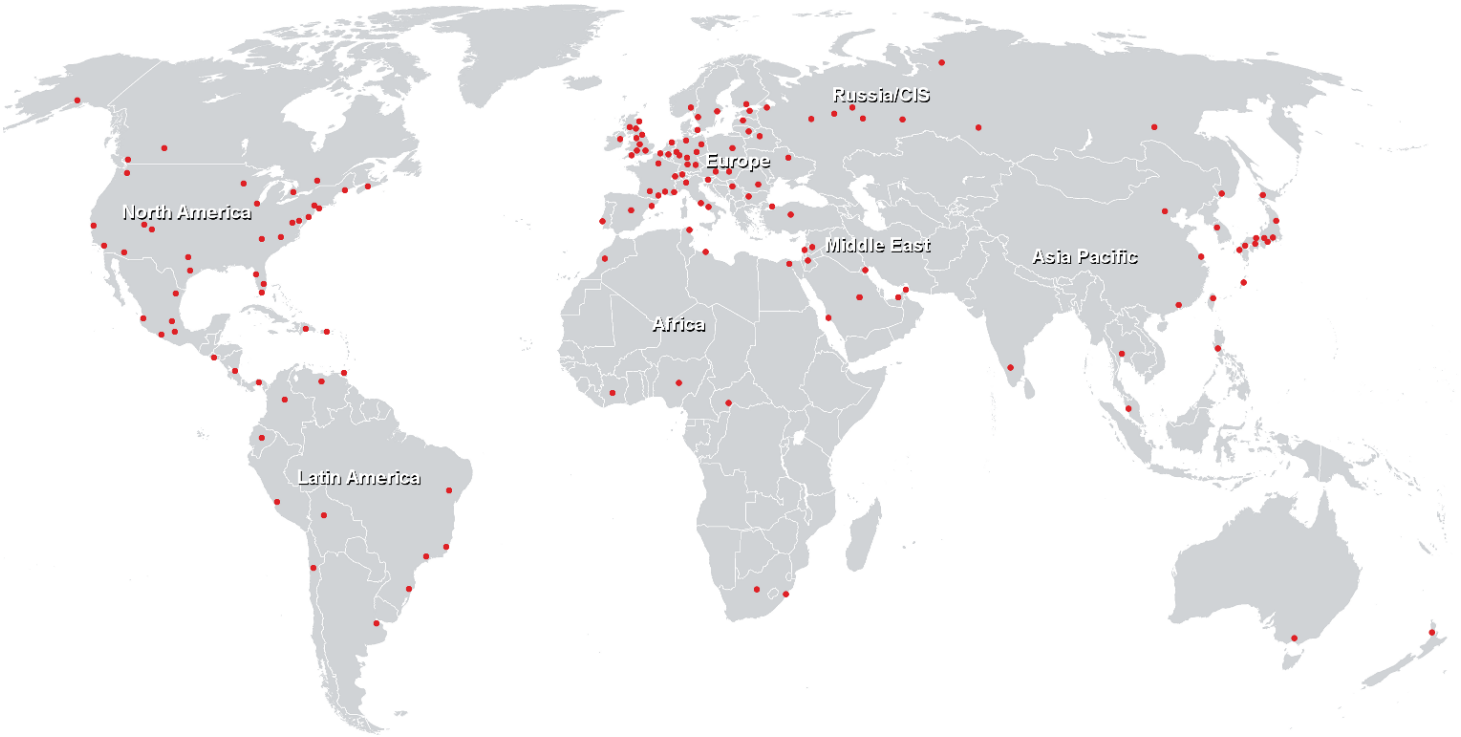
Training Centres worldwide



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