



**C|EH v13**

**BECOME A CERTIFIED  
ETHICAL HACKER**

Powered by AI Capabilities

**LEARN | CERTIFY | ENGAGE | COMPETE**

**EC-Council** **C|EH**<sup>v13</sup>

Certified Ethical Hacker

Certified Ethical Hacker **Powered by AI**

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# Build Your Career with the **Most** **In-Demand** Ethical Hacking Certification

**Ranked 1<sup>st</sup>** in Ethical Hacking  
Certifications by ZDNet

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Ranked in the List of **Top 10**  
Cybersecurity Certifications

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**Ranked 4<sup>th</sup>** Among  
the Top 50 Leading  
Cybersecurity Certifications

**01** The **World's #1** Ethical Hacking  
Certification for 20+ years

**01** EC-Council Introduces the **Industry's**  
**First AI** Cybersecurity Courses

**12** CEH Ranks 12th among the  
**Top 75 Highest-Paying IT**  
**Certifications** in the US and Globally

**97%** Stated That the Skills They  
Acquired in CEH Helped  
**Safeguard Their Organizations**

**95%** Chose CEH for  
**Career Growth**

**92%** of **Hiring Managers Prefer**  
Candidates with the CEH for  
Jobs That Require Ethical Hacking Skills

**45+** Cybersecurity Job Roles Are  
Mapped to the CEH Certification in  
2024, Compared to 20+ Roles in 2022

**1 in every 2** Professionals Received  
Promotions After Completing the CEH

CEH is the only Globally In-Demand Ethical  
Hacking Certification that covers **Core**  
**Domains of Cybersecurity** and has Global  
Recognition and Accreditations while  
offering a Higher Employability Rate

# Future Proof Your Cybersecurity Career with AI

The Demand for  
Cybersecurity Professionals  
with AI Skills is on the Rise

AI Skills No Longer Optional;  
They Are Essential

**42%** of large enterprises actively use AI, and 59% of early adopters plan to increase investment and accelerate AI integration (IBM, 2024)

**40%** surge in demand for specialists in Artificial Intelligence and Machine Learning (World Economic Forum, 2023)

**96%** of security leaders deem AI solutions essential for countering AI-powered threats due to their speed and effectiveness (Darktrace, 2024)

**87%** of business leaders expect at least a quarter of their workforce will need to upskill in AI (IBM, 2024)

## AI in Cybersecurity

### Threats

**83%** note tangible alterations in attack methodologies amidst the AI revolution (EC-Council, 2024)

**66%** admit Being Unprepared for AI Cyber Onslaughts (EC-Council, 2024)

### Countermeasures

Up to **90%** of fraud costs can be reduced by AI models in specific scenarios where behavioral data analysis is effectively applied (IBM, 2024)

**AI** and automation slashed breach impact by 30%, saving businesses USD 850,000 and reducing breach lifecycles by 108 days (IBM, 2023)

\*McAfee Report. †Darktrace. ‡Forbes. \*Projected by Future of Jobs Report 2023. ††2023 Emerging Jobs Report, LinkedIn.

# Gain Cybersecurity Mastery for Real-world Success with **Certified Ethical Hacker v13**

## Why Should You Join the AI Revolution with the Certified Ethical Hacker Program?

By joining the AI Revolution as a Certified Ethical Hacker, you'll gain the expertise to navigate the cutting-edge world of cybersecurity.

Certified Ethical Hackers, trained in the latest version of CEH v13, are equipped with AI-powered tools and techniques to identify, exploit, and secure vulnerabilities in systems and networks. You'll learn to leverage AI for automating threat detection, predicting security breaches, and responding swiftly to cyber incidents. Moreover, you'll also gain the skills needed to secure AI-driven technologies against potential threats. This combination of ethical hacking and AI capabilities will place you at the forefront of cybersecurity, ready to defend organizations across industries from advanced threats and adapt to evolving challenges.

Amplify Your Edge as a Certified Ethical Hacker Powered by AI Capabilities:

**Advanced Knowledge:** As a Certified Ethical Hacker powered by AI, you'll possess in-depth knowledge of ethical hacking methodologies, enhanced with cutting-edge AI techniques.

**AI Integration:** You'll effectively integrate AI across every phase of ethical hacking, from reconnaissance and scanning to gaining access, maintaining access, and covering your tracks.

**Automation and Efficiency:** You'll leverage AI to automate tasks, boost efficiency, and detect sophisticated threats that traditional methods might overlook.

**Proactive Defense:** With AI at your disposal, you'll be equipped for proactive threat hunting, anomaly detection, and predictive analysis to prevent cyber-attacks before they happen.

## How CEH v13 Powered by AI Redefines Your Cybersecurity Career

- | Experience the world's first ethical hacking program powered by AI
- | Master the five phases of ethical hacking integrated with AI
- | Achieve 40% efficiency and double your productivity with AI-driven skills
- | Learn how to hack AI systems
- | Become an AI expert with hands-on labs for practicing AI skills
- | Master the latest advanced attack techniques, trends, and countermeasures
- | Gain practical experience with 221 labs, attack vectors, and hacking tools
- | Experience with over 550 attack techniques
- | Explore 4,000+ commercial-grade hacking and security tools
- | Follow a unique four-phase learning framework: Learn, Certify, Engage, Compete
- | Practice hacking a real organization in a live cyber range
- | Validate your skills in a 6-hour practical exam or 4-hour knowledge-based exam
- | Compete with hackers in global CTF competitions on the latest issues
- | Earn the globally recognized No.1 Ethical Hacking Certification
- | Gain a certification that is approved and accredited by U.S. DoD 8140, ANAB 17024, and NCSC
- | Meet the rigorous standards of NICE 2.0 and the NIST Framework
- | Get the opportunity to be employed by top organizations including Fortune 500 companies, government, and private sector firms

## What's New in The CEH v13

The CEH v13 not only provides extensive hands-on coverage but also integrates AI into all five phases of ethical hacking:



Get CEH Trained from Anywhere with our World-Class Instructors

1. Live-Online
2. Self-Paced Video Lectures
3. In-Person training
4. Masterclass

# Master AI to **Automate Ethical Hacking** Tasks, to hack and defend against **AI systems,**

and boost your task **efficiency by 40%** in your job role.

## Develop a Hacker's Mindset: Master the 5 Phases of Ethical Hacking and Gain AI Skills to Automate Them

### 1. Reconnaissance

| Learn to gather essential information about your target

### 2. Vulnerability Scanning

| Gain the ability to identify weaknesses in the target system

### 3. Gaining Access

| Learn how to actively exploit identified vulnerabilities

### 4. Maintaining Access

| Develop skills to maintain continued access to the target systems

### 5. Clearing Tracks

| Master the art of erasing any trace of your activities

## Learn AI Tools:

- ShellGPT
- ChatGPT
- FraudGPT
- WormGPT
- DeepExploit
- Nebula
- Veed.io

And many more!

# Learn to Hack AI Systems Based on OWASP's Top 10 AI Attack Vulnerabilities and Threats

In CEH v13, you will not only master AI-driven cybersecurity but also learn to hack AI systems. This comprehensive training equips you with cutting-edge AI-driven skills, enhancing your ability to execute cybersecurity tasks with up to 40% greater efficiency, while significantly boosting your productivity.

Prompt Injection  
Insecure Output Handling  
Training Data Poisoning  
Model Denial of Service  
Supply Chain Vulnerabilities  
Sensitive Information Disclosure  
Insecure Plugin Design  
Excessive Agency  
Overreliance  
Model Theft

# CEH v13 Gain Skills to Battle AI Against AI Your Ultimate Training Ground for Mastering AI-driven Cybersecurity Skills

CEH v13 equips professionals with advanced skills to enhance their hacking techniques and leverage AI. Gain the expertise to:

Drive 40% efficiency in cybersecurity tasks  
Double your productivity with AI-driven methods  
Master the application of AI in cybersecurity  
Learn to hack AI systems  
Explore multiple AI and GPT tools  
Automate repetitive tasks  
Detect advanced threats  
Make informed decisions using AI-enhanced analysis  
Adapt to evolving threats through AI-driven learning  
Improve reporting with AI-powered insights

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# CEH v13: **The World's First** Ethical Hacking Certification with a 4-Phase AI-Powered Learning Framework

The CEH v13 is a specialized, one-of-a-kind training program that helps you gain expertise in ethical hacking, AI, and machine learning. With hands-on training labs, knowledge-based and practical exams, a mock ethical hacking engagement on live networks, and a global hacking competition, this program ensures you master the most in-demand skills needed to excel and stand out in the cybersecurity industry.

This learning framework offers not only a comprehensive training program to prepare you for the certification exam but also the industry's most robust, in-depth, hands-on lab and practice range experience.

**Master Ethical Hacking and AI Skills That Go Beyond Certification**

## Learn

Courseware  
Cyber Range  
**Gain Skills**

1

## Certify

Knowledge-Based  
Practical Exam  
**Gain Recognition**

2

## Engage

Live Cyber Range  
**Gain Experience**

3

## Compete

Global Ethical  
Hacking Competition  
**Gain Respect**

4

# Beat Hackers in their Own Game with CEH v13! A Revolutionary Way to Learn Ethical Hacking

## 1. Learn

20 modules

2500+ pages of student manual

2000 pages of lab manual

Over 221 hands-on labs to practice attack vectors and hacking tools

AI integrated skills in the 5 phases of the ethical hacking framework

Hacking AI system, based on the Top 10 OWASP vulnerabilities

Over 4000 hacking and security tools

Learn how to hack multiple operating systems (Windows 11, Windows servers, Linux, Ubuntu, Android)

More than 50% of training time is dedicated to labs

## 2. Certify

Knowledge-Based Exam  
(ANAB ISO 17024 and US DoD 8140)

4 hours

125 multiple-choice questions

Practical Exam  
(ANAB ISO 17024 and US DoD 8140)

6 hours

20 real scenario based questions

## 3. Engage

4000 hacking tools

550 attack techniques

Conduct a real-world ethical hacking assignment

Apply the 5 phases

1. Reconnaissance
2. Scanning
3. Gaining access
4. Maintaining access
5. Covering your tracks

## 4. Compete

New challenges every month

4-hour CTF competition

Compete with your peers worldwide

Hack your way to the top of the leaderboard

Focus on new attack vectors

Exploit emerging vulnerabilities

Challenges include:

- Ransomware
- Web app hacking and pen testing
- Web app hardening
- Reverse engineering
- Unpatched software
- Cryptography
- System hacking
- Encryption
- Service exploitation
- Hacking cloud networks
- Incident response
- ICS/SCADA
- Forensic analysis

# Learn

## Learn ethical hacking with the revolutionary CEH v13—a game-changer for aspiring ethical hackers.

With 20 cutting-edge modules, you'll gain the core skills needed to dominate the cybersecurity landscape. CEH isn't just keeping pace—it's leading the charge, evolving with the latest operating systems, exploits, tools, and hacking techniques to ensure you're always ahead of the curve.

Dive deep into the future of cybersecurity with training that integrates AI into all five phases of ethical hacking, reconnaissance and scanning to gaining access, maintaining access, and covering tracks. You'll harness the power of AI to supercharge your hacking techniques and disrupt AI systems—giving you 10x efficiency in your cybersecurity role.

CEH v13 isn't just a certification; it's a fully immersive experience. CEH combines comprehensive knowledge-based training with immersive hands-on labs to ensure a well-rounded learning experience. You'll engage with live targets, tools, and vulnerable systems in a controlled environment, building real-world skills that empower you to confidently apply your expertise in any scenario. Get ready to transform the way you hack and protect the digital world!

### Course Outline

Get the AI edge with  
20 Power-packed  
Modules of the CEH v13



Learn	Course Outline
<p><b>Module 01</b> Introduction to Ethical Hacking</p>	<p>Learn the fundamentals and key issues in information security, including the basics of ethical hacking, information security controls, relevant laws, and standard procedures.</p>
<p><b>Module 02</b> Footprinting and Reconnaissance</p>	<p>Learn how to use the latest techniques and tools for footprinting and reconnaissance, a critical pre-attack phase of ethical hacking</p>
<p><b>Module 03</b> Scanning Networks</p>	<p>Learn different network scanning techniques and countermeasures.</p>
<p><b>Module 04</b> Enumeration</p>	<p>Learn various enumeration techniques, including Border Gateway Protocol (BGP) and Network File Sharing (NFS) exploits and associated countermeasures.</p>
<p><b>Module 05</b> Vulnerability Analysis</p>	<p>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 also included.</p>
<p><b>Module 06</b> System Hacking</p>	<p>Learn about the various system hacking methodologies used to discover system and network vulnerabilities, including steganography, steganalysis attacks, and how to cover tracks.</p>
<p><b>Module 07</b> Malware Threats</p>	<p>Learn about different types of malware (Trojan, viruses, worms, etc.), APT and fileless malware, malware analysis procedures, and malware countermeasures.</p>
<p><b>Module 08</b> Sniffing</p>	<p>Learn about packet sniffing techniques and their uses for discovering network vulnerabilities, plus countermeasures to defend against sniffing attacks.</p>
<p><b>Module 09</b> Social Engineering</p>	<p>Learn social engineering concepts and techniques, including how to identify theft attempts, audit human-level vulnerabilities, and suggest social engineering countermeasures.</p>
<p><b>Module 10</b> Denial-of-Service</p>	<p>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.</p>



Learn	Course Outline
<p><b>Module 11</b> Session Hijacking</p>	<p>Learn the various session-hijacking techniques used to discover network-level session management, authentication, authorization, and cryptographic weaknesses and associated countermeasures.</p>
<p><b>Module 12</b> Evading IDS, Firewalls, and Honeypots</p>	<p>Learn about firewalls, intrusion detection systems (IDS), and honeypot evasion techniques; the tools used to audit a network perimeter for weaknesses; and countermeasures.</p>
<p><b>Module 13</b> Hacking Web Servers</p>	<p>Learn about web server attacks, including a comprehensive attack methodology used to audit vulnerabilities in web server infrastructures and countermeasures.</p>
<p><b>Module 14</b> Hacking Web Applications</p>	<p>Learn about web application attacks, including a comprehensive hacking methodology for auditing vulnerabilities in web applications and countermeasures.</p>
<p><b>Module 15</b> SQL Injection</p>	<p>Learn about SQL injection attack techniques, evasion techniques, and SQL injection countermeasures.</p>
<p><b>Module 16</b> Hacking Wireless Networks</p>	<p>Learn about different types of encryption, threats, hacking methodologies, hacking tools, security tools, and countermeasures for wireless networks.</p>
<p><b>Module 17</b> Hacking Mobile Platforms</p>	<p>Learn mobile platform attack vectors, Android and iOS hacking, mobile device management, mobile security guidelines, and security tools.</p>
<p><b>Module 18</b> IoT Hacking</p>	<p>Learn different types of Internet of Things (IoT) and operational technology (OT) attacks, hacking methodologies, hacking tools, and countermeasures.</p>
<p><b>Module 19</b> Cloud Computing</p>	<p>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.</p>
<p><b>Module 20</b> Cryptography</p>	<p>Learn about encryption algorithms, cryptography tools, Public Key Infrastructure (PKI), email encryption, disk encryption, cryptography attacks, and cryptanalysis tools.</p>

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## Hands-On Learning Labs

With 221 hands-on labs in our cutting-edge cyber range, you'll practice every skill on live machines and real-world vulnerabilities. Armed with over 4,000 powerful hacking tools and a range of operating systems, you'll gain unrivaled, practical expertise with the most widely used security tools, current vulnerabilities, and industry-standard operating systems.

This revolutionary environment brings the industry's top security tools and the latest vulnerabilities to your fingertips, all in a web-accessible platform. No matter where you are, you can dive into the real-world experience and emerge as a force to be reckoned with in cybersecurity.

## Lab Environment

### Cloud-Based Cyber Range

#### What's Covered

100% virtualization for a complete learning experience

Full access to pre-configured targets, networks, and the attack tools necessary to exploit them:

**Pre-configured vulnerable websites**

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**Vulnerable, unpatched operating systems**

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**Fully networked environments**

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**4000+ hacking tools and so much more!**

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Wide range of target platforms to hone your skills

550 attack techniques covered

Objective-oriented flags for critical thinking and applied knowledge assessment

Cloud-based cyber range

# Certify

## Prove Your Skills and Abilities with Online, Practical Examinations

### CEH Exams: 4-hour Knowledge-Based Exam and 6-hour Practical Exam.

The Certified Ethical Hacker (CEH) is globally recognized as the gold standard for assessing ethical hacking skills. With CEH v13, you have the option to take two exams: a knowledge-based exam and a practical exam to earn the CEH Master certification. Both exams are approved by the U.S. DoD 8140 and accredited by ANAB ISO/IEC 17024.

Industry practitioners meticulously vet certification domains to align with current industry demands. Each exam undergoes rigorous psychometric evaluation, ensuring a fair and accurate assessment of your ethical hacking expertise.

Achieving the CEH certification and passing both the knowledge-based and practical exams earns you the prestigious CEH Master certification. This advanced recognition demonstrates not only your theoretical understanding but also your mastery of real-world ethical hacking skills, proving you're ready to excel in any cybersecurity role.

## Certification Outline

Knowledge Exam  
4 Hours  
Multiple-Choice Exam

Skills Exam  
6 Hours  
20 Practical Challenges



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## CEH Knowledge-Based Exam

The CEH knowledge-based exam is a four-hour exam with 125 multiple-choice questions. It will test your skills in information security threats, attack vectors, attack detection, attack prevention, procedures, methodologies, and more! This exam is recognized worldwide as the original and most trusted tactical cybersecurity certification exam.

Access our Exam Blueprint for CEH ([Download Now](#))

## CEH Practical Exam

The CEH Practical exam is the world's first ethical hacking practical exam to have ANAB and US DoD approval. The CEH Practical is a 6-hour, 100% hands-on exam delivered in our Cyber Range that requires you to demonstrate the skills and abilities of ethical hacking techniques such as:

- Port scanning tools (e.g., Nmap, Hping)
- Vulnerability detection
- Attacks on a system (e.g., DoS, DDoS, session hijacking, web server and web application attacks, SQL injection, and wireless threats)
- SQL injection methodology and evasion techniques
- Web application security tools (e.g., Acunetix WVS)
- SQL injection detection tools (e.g., IBM Security AppScan)
- Communication protocols

In the CEH Practical, you have a limited time to complete 20 challenges that test your proficiency in a performance-based cyber range. This exam is NOT a simulation and incorporates a live corporate network of VMs and applications with solutions to uncover vulnerabilities.

## CEH Master

Upon successfully completing both the CEH Knowledge-based Exam and the CEH Practical Exam, the CEH (Master) designation is awarded. A CEH (Master) signifies a high level of proficiency in ethical hacking knowledge, skills, and abilities, with a total of 6 hours of testing to prove their competency. The top 10 performers in both the CEH Knowledge-based Exam and CEH Practical Exam are featured on the CEH Master Global Ethical Hacking Leader Board.

### The CEH Exams at a Glance

Exam Details	CEH Knowledge Exam	CEH Practical Exam
Number of Questions/ Practical Challenges	125 Questions	20 Practical Challenges
Test Duration	4 Hours	6 Hours
Test Format	MCQ	iLabs Cyber Range
Test Availability	ECC Exam, Vue	ASPEN, iLabs
Exam Prefix	312-50 (ECC Exam), 312-50 (VUE)	-
Passing Score	60% - 85%	60% - 85%

# Engage

The CEH v13 program immerses you in real-world ethical hacking through the dynamic CEH practice environment. With CEH Engage, you'll sharpen your skills and prove you have what it takes to thrive as an ethical hacker.

New to CEH v13, learners will embark on their first emulated ethical hacking engagement. This four-phase engagement requires students to think critically and test the knowledge and skills gained by capturing a series of flags in each phase. It demonstrates 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 labs, CEH Engage empowers you to put theory into practice through a mock hacking engagement. You'll navigate a real-world, four-part engagement, targeting an emulated organization. Using a capture-the-flag format, you'll progress by answering critical "flag" questions, gaining hands-on experience in a full-scale ethical hacking operation.

## Your Mission:

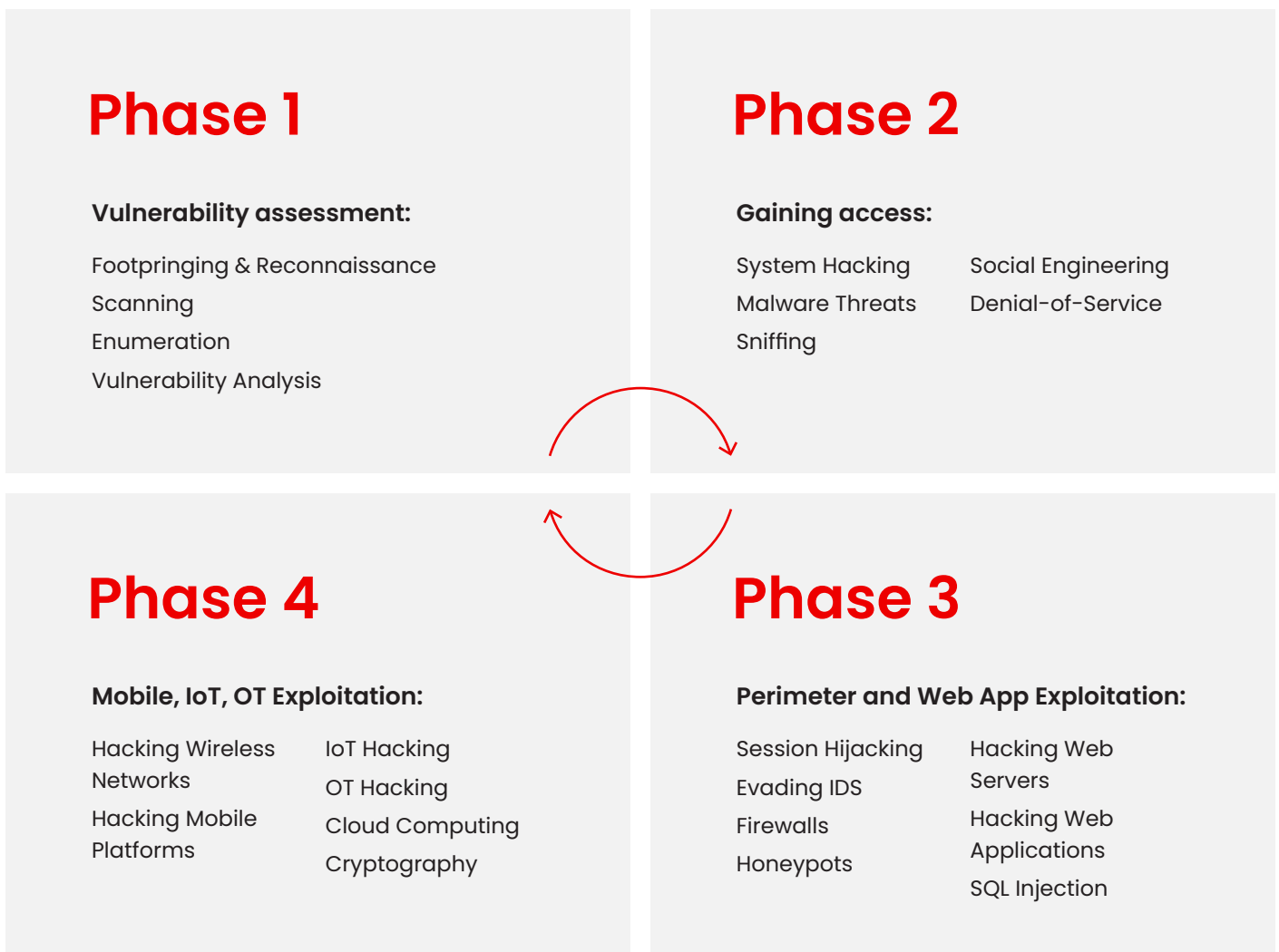
Whether this is your first engagement or you're honing your skills, get ready to test your ethical hacking knowledge like never before! Once you've practiced through the hands-on guided labs, it's time to apply your knowledge, take on the hacker's persona, and find the vulnerabilities and weaknesses in the ABCD organization (fictitious organization, but with real live networks)—all built within our CEH Engage (practice range).

## Target Organization Characteristics

- ABCDorg is a nationwide IT/ITES organization
- Realistic segmented networks
- Demilitarized zones (DMZs) and private subnets stretch across the infrastructure to support various business units
- Various application servers and services support ABCDorg Operations
- Real networks, real operating systems, and real applications
- Private, dedicated access — no shared resources
- Fully automated network deployment with EC-Council's Cyber Range
- 24x7 browser-based access

# 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. It’s the ultimate learning experience to support your career as an ethical hacker! Each phase builds on the last as you progress through your ABCDorg engagement.



# Compete

## True progress thrives on competition—it's what drives you to reach your full potential and become the best in the game!

The CEH global challenges takes place monthly, providing capture-the-flag style competitions that give learners exposure to various new technologies and platforms, from web applications, OT, IoT, SCADA, and ICS systems to cloud and hybrid environments.

You will compete against other ethical hackers in a fast-paced, four-hour event as you climb the leaderboard in curated CTFs designed around the ethical hacking process. Each objective-based flag sharpens your current skills, tests your critical thinking, and covers the latest vulnerabilities and exploits. Hosted entirely online in EC-Council's advanced Cyber Range, these scenario-based engagements are set in fully developed network and application environments with real operating systems, networks, tools, and vulnerabilities. You'll have the opportunity to practice, engage, compete, build and hone your hacking techniques as you engage with new target organizations, all while racing against the clock to prove your mastery.

## CEH Global Challenges

Each month will present a different theme and challenge, with capture-the-flag-style competitions focusing on ethical hackers' core skills and abilities. Gain exposure to new tools, focus on new attack vectors, and try to exploit emerging vulnerabilities while

## New Challenges Every Month

Month	Skill Challenge
September '24	Off-The Shelf Off-The-Shelf CMS Exploitation
October '24	Windows Wreckage: Unravelling Code & Hunting Threats
November '24	Web Warriors: Defend Against the OWASP Menace
December '24	Operation ATT&CK Unveil: Decoding Cyber Tactics
January '25	RansomWar: Battle for Decryption
February '25	Supply Chain Siege: Unravel the Hidden Links
March '25	Operation Nexus: Breach the Grid
April '25	Identity Infiltration: Breach the Directory
May '25	API Apocalypse: Breach the Gateways
June '25	Data Fortress Breach: Cracking the Core
July '25	Operation Deep Breach: Hack, Escalate, Pivot
August '25	eCommerce Rampage: Defend the Digital Marketplace
Sept '25	Cloud Clash: Battle for Infrastructure Security

### Hack Your Way to the Top – Become the Name Everyone Knows!

As an ethical hacker, you will battle to the top of the monthly Ethical Hacking Leaderboards as you race against the clock in these four-hour CTF challenges. The challenge is open all month long, so compete when you're ready! Leaderboards as you race against the clock in these 4-hour CTF challenges. The challenge is open all month long, so compete when you're ready!

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## Pre-Requisites

You need only an internet connection, and can compete through your browser. We provide the attack platform, targets and all the required tools. You bring the skills to win!

## Chance to Earn Prestigious CEH Compete Badges Each Month



## Compete Examples (A Preview of Challenges)

### Topic: Ransomware/Malware Analysis

Brief: You have been called in by a reputable MNC that was recently hit with malware. This malware locked up their services and infected a slew of customers who were using their software. The incident response team managed to extract some of the code. Now, your job is to reverse-engineer the malware and identify encryption algorithms used, plus identify any trace of command-and-control servers that may be helpful to law enforcement agencies.

### Topic: Application Hardening

Brief: Your employer, a large financial institution, has suffered a breach where hackers were able to inject code into a web application, exposing sensitive customer data. Your company has faced tremendous scrutiny from the public and must pay fines to its regulators. You have to perform a series of manual and automated tests against the web application to identify weaknesses and provide recommended countermeasures to the app security team.

[\(Become an AI Powered Certified Ethical Hacker\)](#)

# Stay Ahead of Emerging Threats:

## New Focus Areas and Trends in CEH v13

Trained to think outside the box with a hacker's mindset, individuals who pursue the Certified Ethical Hacker (CEH) v13 thoroughly explore top OWASP attacks, active directory breaches, the vulnerability of traditional encryption to quantum computing, the growing ransomware threat, and other emerging risks, equipping learners with strategies to implement zero trust architecture and other cybersecurity measures. CEH v13 is comprehensive with the latest knowledge, providing cybersecurity professionals with the skills, tools, techniques, and strategies to defend against trending, modern, and complex cyber threats effectively and efficiently.

Active Directory Attacks

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Ransomware Attacks and Mitigation

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AI and Machine Learning in Cybersecurity

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Critical Infrastructure Vulnerabilities

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Extended Detection and Response (XDR)

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Quantum Computing Risks and Attacks

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Post-Quantum Cryptography

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Deepfake Threats

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Zero Trust Architecture

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Cloud Security

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IoT Security Challenges

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Critical Infrastructure Vulnerabilities

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## Get 10 Ethical Hacking videos in CEH v13 Elite

1. Open Source Intelligence
2. Wireshark for Ethical Hackers
3. Ethical Hacking with Nmap
4. Windows Penetration Testing Essentials
5. Session Hijacking and Prevention Techniques
6. Power of Next Generation Firewalls
7. OWASP Top 10 Security Fundamentals
8. Burp Suite: Web Application Penetration Testing
9. Deep Dive into Network Assessments
10. Applied Secure Smart City

# CEH Skills Mapped To 49 Cybersecurity Job Roles

1. Mid-Level Information Security Auditor
2. Cybersecurity Auditor
3. Security Administrator
4. IT Security Administrator
5. Information Security Analyst 1
6. Infosec Security Administrator
7. Cybersecurity Analyst (Level 1, Level 2, & Level 3)
8. Network Security Engineer
9. SOC Security Analyst
10. Network Engineer
11. Senior Security Consultant
12. Information Security Manager
13. Senior SOC Analyst
14. Solution Architect
15. Cybersecurity Consultant
16. Cyber Defense Analyst
17. Vulnerability Assessment Analyst
18. Warning Analyst
19. All-Source Analyst
20. Cyber Defense Incident Responder
21. Research & Development Specialist
22. Senior Cloud Security Analyst
23. Third Party Risk Management:
24. Threat Hunting Analyst
25. Penetration Tester
26. Cyber Delivery Manager
27. Application Security Risk
28. Threat Modelling Specialist
29. Web Application Penetration Testing
30. SAP Vulnerability Management - Solution Delivery Advisor
31. Ethical Hacker
32. SIEM Threat Responder
33. Product Security Engineer / Manager
34. Endpoint Security Engineer
35. Cybersecurity Instructor
36. Red Team Specialist
37. Data Protection & Privacy Officer
38. SOAR Engineer
39. AI Security Engineer
40. Sr. IAM Engineer
41. PCI Security Advisor
42. Exploitation Analyst (EA)
43. Zero Trust Solutions Engineer / Analyst
44. Cryptographic Engineer
45. AI/ML Security Engineer
46. Machine Learning Security Specialist
47. AI Penetration Tester
48. AI/ ML Security Consultant
49. Crypto Security Consultant

# CEH v13 Training Information

Training: 5 days

Duration: 40 Hours

Training Options

## **iLearn (Self-Study)**

This solution is an asynchronous, self-study environment in a video-streaming format.

## **iWeek (Live Online)**

This solution is an online, live training course led by an instructor.

## **Master Class**

This solution offers the opportunity to learn from world-class instructors and collaborate with top information security professionals.

## **Training Partner (In Person)**

This solution offers in-person training so that you can benefit from collaborating with your peers.

# CEH Employed by **Government** and **Top Fortune 500** Companies Across the Globe

Why Top Cybersecurity Professionals Love CEH?

**"Skills from the CEH program have evolved and are valuable."**



Mauricio Fernandes  
Systems Architect,  
Cisco, USA

**"Knowledge I gained from CEH gave me the confidence I needed to step into a role as a security engineer and penetration tester."**



Roy Davis  
Security Engineer,  
Zoom, USA

**"Helping organization investigating SolarWinds hack, wouldn't have been possible without CEH."**



Giulio Astori  
Cyber Security Architect,  
Microsoft, USA

**"CEH was my first confidence booster and helped land me a job on a Red Team in the government sector."**



Farzan Karimi  
IT Security Manager,  
Google, USA

**"CEH made me an authoritative expert on security discussions with our clients."**



Kojo Donkor  
Security Architect,  
Cisco, USA

**"CEH helped me be able to understand exactly what I was doing once I finally landed a role in the cybersecurity field."**



Lawan Cancer II  
Security Analyst,  
Morgan Stanley, USA

**"CEH has helped me to work on mobile devices and AppSec - Pen testing and reverse engineering."**



John Packiaraj  
Security Architect,  
Visa, USA

**"While other certifications talk the talk, CEH walks the walk and is recognized by the department of defense."**



Michael Turner  
Chief Security Engineer,  
Lockheed Martin, USA

**"CEH develops a "think outside the box" approach that you cannot get from other skills."**



Felipe Munoz  
IT Security Director,  
Oracle, USA

# CEH v13 Recognition/ Endorsement/Mapping



# Discover Why Organizations Worldwide Trust the CEH Certification

For 20 years, EC-Council's cybersecurity programs have empowered cybersecurity professionals around the world to exercise their training and expertise to combat cyberattacks. The CEH Hall of Fame celebrates those individuals who have excelled, achieved, and fostered a spirit of leadership among their colleagues and peers within the cyber community.

Key Findings Reported by Thousands of Cybersecurity Professionals from the CEH Hall of Fame Report:

## Download CEH Hall of Fame Report

Over 1 In Every 2 Professionals Received Promotions After CEH

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97% Stated That the Skills They Acquired In CEH Helped Safeguard Their Organizations

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97% Found That CEH Labs Accurately Mimic Real-World Cyber Threats

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95% Chose CEH For Career Growth

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93% Said That CEH Skills Improved Their Organizational Security

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92% Of Hiring Managers Prefer Candidates With CEH For Jobs That Require Ethical Hacking Skills

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92% Reported That CEH Boosted Their Self-Confidence

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88% Considered CEH Is the Most Comprehensive Ethical Hacking Program in the Industry

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85% Credited CEH With Helping Them Give Back to The Cybersecurity Community

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80% Started Their Cybersecurity Careers with CEH

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## About EC-Council

**EC-Council's sole purpose is to build and redefine the cybersecurity profession globally.**



We help individuals, organizations, educators, and governments address global workforce problems by developing and curating world-class cybersecurity education programs and their corresponding certifications. We also provide cybersecurity services to some of the largest businesses globally. Trusted by 7 of the Fortune 10, 47 of the Fortune 100, the Department of Defense, the intelligence community, NATO, and over 2,000 of the best universities, colleges, and training companies, our programs have certified people in over 140 countries, and set the bar in the field of cybersecurity education. Best known for the Certified Ethical Hacker (CEH) program, we are dedicated to equipping over 380,000 information-age soldiers with the knowledge, skills, and abilities required to fight and win against cyber adversaries. EC-Council

builds individual and organization-wide cyber capabilities through our other programs as well, including Certified Secure Computer User (CSCU), Computer Hacking Forensic Investigator (CHFI), Certified Security Analyst, Certified Network Defender (CND), Certified SOC Analyst (CSA), Certified Threat Intelligence Analyst (CTIA), Certified Incident Handler (ECIH), and the Certified Chief Information Security Officer (CCISO). We are an ANAB ISO/IEC 17024 accredited organization and have earned recognition by the DoD under Directive 8140/8570 in the UK by the GCHQ, CREST, and various other authoritative bodies. Founded in 2001, EC-Council employs over 400 individuals worldwide, with ten global offices in the U.S., UK, Malaysia, Singapore, India, and Indonesia. Our U.S. offices are in Albuquerque, NM, and Tampa, FL. Learn more at [eccouncil.org](https://eccouncil.org).

**EC-Council** C|EH<sup>v13</sup>

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