



Arrow ECS Finland Oy - Education Services

## TRAINING OFFERING

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<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
ECC_CEH13	40 Hours (5 days)	€3,595.00

## Description

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 an AI-powered Certified Ethical Hacker, 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.

In C|EH 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.

The C|EH 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.

### **New Focus Areas and Trends in C|EH v13**

Trained to think outside the box with a hacker's mindset, individuals who pursue the Certified Ethical Hacker (C|EH) 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. C|EH 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
- Ransomware Attacks and Mitigation
- AI and Machine Learning in Cybersecurity
- Critical Infrastructure Vulnerabilities
- Extended Detection and Response (XDR)
- Quantum Computing Risks and Attacks
- Post-Quantum Cryptography
- Deepfake Threats
- Zero Trust Architecture
- Cloud Security
- IoT Security Challenges
- Critical Infrastructure Vulnerabilities

## 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.

		Phase 4	Phase 3
		<b>Mobile, IoT, OT Exploitation:</b>	<b>Perimeter and Web App Exploitation:</b>
		Hacking Wireless	Session Hijacking
		Networks	Evading IDS
	Phase 2	Hacking Mobile	Firewalls
Phase 1	<b>Gaining access:</b>	Platforms	Honeypots
<b>Vulnerability assessment:</b>	System Hacking	IoT Hacking	Hacking Web
Footprinting & Reconnaissance	Malware Threats	OT Hacking	Servers
Scanning	Sniffing	Cloud Computing	Hacking Web
Enumeration	Social Engineering	Cryptography	Applications
Vulnerability Analysis	Denial-of-Service		SQL Injection

## Prerequisites

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!

## Programme

### Module 01 Introduction to Ethical Hacking

Learn the fundamentals and key issues in information security, 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 for footprinting and reconnaissance, a critical pre-attack phase of ethical hacking.

### 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 also included.

### 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 firewalls, intrusion detection systems (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 hacking methodology for auditing 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.

## **Test and Certification**

Knowledge Exam

4 Hours

#### **CEH Knowledge-Based Exam**

Multiple-Choice Exam The CEH knowledge-based exam is a four-hour exam with 125 multiple-choice questions.

Skills Exam

6 Hours It will test your skills in information security threats, attack vectors, attack detection,

20 Practical Challenges worldwide as the original and most trusted tactical cybersecurity certification exam.

#### **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.

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 C|EH Knowledge-based Exam and the C|EH Practical Exam, the C|EH (Master) designation is awarded. A C|EH (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 C|EH Knowledge-based Exam and C|EH Practical Exam are featured on the C|EH Master Global Ethical Hacking Leader Board.

## **Further Information**

From the creators of Certified Ethical Hacker (CEH) comes the new and evolved version 13 with added AI capabilities. Structured across 20 learning modules covering over 550 attack techniques, CEH provides cybersecurity professionals with the core knowledge they need to detect and defend against emerging threats.

EC-Council Certified Instructor Mane Piperevski tells us about the new Certified Ethical Hacker v13 course. Mane will also present a live demo to show how the new labs look like. Focus will not be in the marketing slides but rather in the actual course content and the new topics this course will cover.

**Webinar recording:** <https://attendee.gotowebinar.com/recording/1568987042646085802>

## **Session Dates**

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
09 Dec 2024	Virtual Classroom (CET +1 / UTC +2)		English	Instructor Led Online	Yes	€3,595.00
27 Jan 2025	Virtual Classroom (CET +1 / UTC +2)		English	Instructor Led Online		€3,595.00
27 Jan 2025	Espoo Arrow Classroom (CET +1 / UTC +2)		English	Classroom		€3,595.00
17 Mar 2025	Virtual Classroom (CET +1 / UTC +2)		English	Instructor Led Online		€3,595.00
17 Mar 2025	Espoo Arrow Classroom (CET +1 / UTC +2)		English	Classroom		€3,595.00
12 May 2025	Espoo Arrow Classroom (CET +1 / UTC +2)		English	Classroom		€3,595.00
12 May 2025	Virtual Classroom (CET +1 / UTC +2)		English	Instructor Led Online		€3,595.00

### Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)