MedTech Programs

MedTech Mediterranean Institute of Technology

Certified Ethical Hacking

EC-COUNCIL | ACADEMIA
— PARTNER —

I. Program overview & Benefit:

The Certified Ethical Hacker (C|EH) v12 program is a comprehensive certification designed to impart the latest ethical hacking skills and knowledge. Over the past 20 years, it has become a benchmark for cybersecurity expertise, equipping professionals to protect and secure IT infrastructures. This program combines theoretical learning with practical labs, offering a deep dive into ethical hacking phases like Reconnaissance, Scanning, Gaining Access, Maintaining Access, and Covering Tracks.

Participants will benefit from hands-on experience with over 220 labs, access to 3500+ hacking tools, and preparation for real-world ethical hacking scenarios. The curriculum covers 20 refreshed modules, including the latest in MITRE ATTACK Framework, intrusion analysis, and cloud computing, ensuring learners are up-to-date with current cybersecurity challenges.

The C|EH v12 not only prepares you for the certification exam but also equips you with the skills necessary for various cybersecurity roles. It's recognized globally, enhancing career prospects and professional credibility. Through this program, learners can master ethical hacking techniques beyond the certification, engaging in continuous learning and global hacking competitions.

This structured approach to ethical hacking education ensures that participants are well-prepared to identify and tackle vulnerabilities, making it an essential certification for anyone looking to advance in the cybersecurity field.

II. Intended Participants:

The Certified Ethical Hacker (C|EH) v12 program is tailored for a diverse range of professionals involved in the cybersecurity domain. Intended participants include:

- Mid-Level Information Security Auditors
- Cybersecurity Auditors
- Security Administrators
- IT Security Administrators
- Cyber Defense Analysts
- Vulnerability Assessment Analysts
- SOC Security Analysts

- Warning Analysts
- Information Security Analysts
- Security Analysts
- Infosec Security Administrators
- Cybersecurity Analysts
- Network Security Engineers

- Network Engineers
- Senior Security Consultants
- Information Security Managers
- Senior SOC Analysts
- Solution Architects
- Cybersecurity Consultants

This program is designed for those already in the cybersecurity field looking to enhance their skills and knowledge in ethical hacking, as well as individuals seeking to enter the field with a comprehensive understanding of how to protect and secure IT infrastructures against potential threats.

III. Program Curriculum

The Certified Ethical Hacker (C|EH) v12 offers a blend of theoretical knowledge and practical labs across 20 modules, covering essential cybersecurity and ethical hacking topics. Participants engage in hands-on experiences in a state-of-the-art cyber range, mastering skills from system hacking to cloud computing and IoT hacking. This curriculum is designed to equip learners with in-demand cybersecurity capabilities, culminating in a globally recognized certification.

IV. Core program curriculum:

includes a comprehensive set of 20 refreshed modules, designed to cover the essentials of ethical hacking and cybersecurity. Here's a brief overview of the modules:

1. **Introduction to Ethical Hacking:** Fundamentals of ethical hacking, information security controls, laws, and standards.
2. **Footprinting and Reconnaissance:** Techniques and tools for footprinting and reconnaissance.
3. **Scanning Networks:** Network scanning techniques and countermeasures.
4. **Enumeration:** Enumeration techniques and countermeasures.
5. **Vulnerability Analysis:** Identifying security loopholes in networks, communication infrastructure, and end systems.
6. **System Hacking:** System hacking methodologies to discover vulnerabilities.
7. **Malware Threats:** Types of malware, malware analysis procedures, and countermeasures.
8. **Sniffing:** Packet sniffing techniques and countermeasures.
9. **Social Engineering:** Concepts, techniques, and countermeasures.
10. **Denial-of-Service:** DoS and DDoS attack techniques and tools.
11. **Session Hijacking:** Techniques, tools, and countermeasures.
11. **Evading IDS, Firewalls, and Honeypots:** Evasion techniques and countermeasures.
12. **Hacking Web Servers:** Attack methodologies and countermeasures.
14. **Hacking Web Applications:** Web application hacking methodologies and countermeasures.
15. **SQL Injection:** Attack techniques, evasion techniques, and countermeasures.
16. **Hacking Wireless Networks:** Wireless technologies, encryption threats, and countermeasures.
17. **Hacking Mobile Platforms:** Mobile platform attack vectors, security guidelines, and tools.
18. **IoT Hacking:** IoT and OT attacks, methodology, and countermeasures.
19. **Cloud Computing:** Cloud computing threats, attacks, security techniques, and tools.
20. **Cryptography:** Cryptographic techniques and their application in cybersecurity.

This curriculum is designed to provide participants with the knowledge and hands-on experience necessary to identify and exploit vulnerabilities in various systems and networks, making it an essential program for anyone looking to advance their career in cybersecurity.

V. Schedule:

The certificate program entails a commitment of 40 hours, with sessions lasting 4 hours each week. Candidates have the flexibility to select their preferred schedule from the following options:

Evening classes
From 6:30 PM to 8:30 PM
Monday and Tuesday or Thursday and Friday

Weekend classes
From 10:00 AM to 12:00 PM:
Saturday and Sunday

VI. Enrollment requirements:

Enrollment requirements are straightforward: there are no specific prerequisites. However, participants are expected to have a basic understanding of networking, operating systems, and coding principles.

VII. The Benefits of the program:

- **Career Advancement:** A majority report promotions post-certification.
- **Skill Enhancement:** 97% affirm the program's effectiveness in safeguarding organizations.
- **Practical Learning:** Labs mimic real-world cyber threats, enhancing practical skills.
- **Professional Recognition:** Highly valued by hiring managers for ethical hacking roles.
- **Confidence Boost:** Increases self-confidence in cybersecurity abilities.
- **Comprehensive Coverage:** Considered the most thorough ethical hacking program.
- **Community Contribution:** Enables participants to contribute effectively to the cybersecurity community.
- **Career Launchpad:** Often the starting point for many in their cybersecurity careers.

The C|EH v12 program not only equips participants with the latest ethical hacking techniques and knowledge but also significantly enhances their career prospects, professional recognition, and confidence in cybersecurity roles.

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