



Ethical Hacking Essentials



I. Program overview & Benefit:

Ethical Hacking Essentials (EHE) is a foundational course designed to equip learners with the essential skills and knowledge required for a successful career in cybersecurity. This comprehensive program introduces participants to the core concepts of computer and network security, ethical hacking, and penetration testing. Covering a wide range of topics from threats and vulnerabilities, password cracking, and web application attacks, to IoT and OT attacks, cloud computing, and pentesting fundamentals, the course provides a broad understanding of the cybersecurity landscape. Through hands-on practical experience, learners gain valuable skills that prepare them for real-world challenges in the cybersecurity domain. Certification in Ethical Hacking Essentials offers formal recognition of expertise and skills, enhancing employment prospects, opportunities for advancement, higher salaries, and greater job satisfaction.

II. Intended Participants:

This program is ideal for individuals seeking to start or advance their careers in cybersecurity. It is suitable for:

- Help Desk Technician
- Technical Support Specialist
- Systems Specialist
- Computer support Specialist
- Network Technician

III. Program Curriculum

The curriculum focuses on imparting practical skills and knowledge in ethical hacking, and is divided into 12 modules, each focusing on a different aspect of cybersecurity:

- 1 Information Security Fundamentals:** Introduction to the basics of information security.
- 2 Ethical Hacking Fundamentals:** Overview of ethical hacking principles and practices.
- 3 Information Security Threats and Vulnerability Assessment:** Identifying and assessing vulnerabilities and threats.
- 4 Password Cracking Techniques and Countermeasures:** Methods of password cracking and how to defend against them.
- 5 Social Engineering Techniques and Countermeasures:** Understanding social engineering and its prevention.
- 6 Network Level Attacks and Countermeasures:** Strategies for defending against network-level attacks.
- 7 Web Application Attacks and Countermeasures:** Addressing webserver exploitation and attacks like SQL injection.
- 8 Wireless Attacks and Countermeasures:** Securing wireless networks against attacks.
- 9 Mobile Attacks and Countermeasures:** Protecting mobile devices from security threats.
- 10 IOT & OT Attacks and Countermeasures:** Safeguarding IoT and OT devices.
- 11 Cloud Computing Threats and Countermeasures:** Managing cloud computing security risks.
- 12 Penetration Testing Fundamentals:** Fundamentals of conducting penetration tests.

IV. Schedule:

The certificate program entails a commitment of 12 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

V. 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.

VI. The Benefits of the program:

- **A strong foundation in the principles and practices of ethical hacking and cybersecurity.**
- **Hands-on experience with the latest tools and techniques in the field.**
- **The ability to identify, assess, and mitigate various cybersecurity threats and vulnerabilities.**
- **Enhanced career opportunities in the fast-growing field of cybersecurity.**
- **Formal recognition through certification, aiding in job advancement and satisfaction.**

These benefits clearly illustrate the dual impact of the EHE program: it not only propels individuals forward in their cybersecurity careers but also plays a crucial role in strengthening the security of our digital environment. By equipping participants with fundamental understanding of ethical hacking,

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