# AI Tactical Skills: Hacking & Defense

Course code: AIEH

Designed specifically for those who want to build real-world, tactical skills, this 5-day intensive, lab-driven course blends ethical hacking, AI, and machine learning into a powerful skills-building experience. No theory-heavy lectures or outdated exams - just real tools, real tactics, and real results. Whether you're a penetration tester, drone engineer, or aspiring cyber defender, you'll leave with the practical expertise to thrive in an AI-driven threat landscape

**We offer AI Tactical Skills: Hacking &Defense**, developed by industry experts Wayne Burke and Kevin Cardwell, in collaboration with **Cyber2 Labs**, a global security specialist–led company known for its expertise in tactical training and real-world cybersecurity solutions.

## Who is the course for

This course is designed for cybersecurity professionals, ethical hackers, penetration testers, and technical specialists seeking to enhance their practical skills in AI-driven security. Ideal participants include CEH, OSCP, CompTIA, and SecOps certified individuals, network and system administrators, drone and robotics engineers, digital forensics investigators, and cloud computing professionals. Whether you're actively working in security or looking to transition into a more advanced role, this course delivers the hands-on expertise needed to operate at the forefront of modern cyber defense.

- Cyber Security engineers / analysts
- EC Council CEH Certified Students
- OSCP Certified Students
- SecOps Certified ProfessionalsCompTIA Certified Professionals
- Network and system administrators
- Drone, &Robotic Engineers &Developers
- Drone Operators
- Digital Forensics Investigators
- Penetration Testers
- Cloud computing personnel
- Cloud project managers
- Operations support looking for career advancement

## Each participant will receive:

- A hacking toolkit (built during the course)
- Exclusive access to the Premier Private Lab-Range for six months

## What we teach you

- Understand the Fundamentals of Cybersecurity and Ethical Hacking
- Grasp the basic concepts, principles, and importance of the ethical considerations in hacking practices
- Identify and Assess Network Vulnerabilities
- Learn AI and Machine Learning to augment attack tools, techniques and tactics
- Learn techniques to discover, analyze, and exploit vulnerabilities in networks and systems.
- Master Various Hacking Tools and Technique
- Gain hands-on experience with popular hacking tools and methodologies
- Conduct Reconnaissance and Information Gathering
- Develop skills in gathering intelligence on targets both passive and active reconnaissance methods
- Perform Network Scanning and Enumeration
- Learn to use tools to scan and enumerate network devices, services, and open ports to map out potential attack vectors

**GOPAS**

- Exploit System and Network Vulnerabilities
- Practice exploiting identified vulnerabilities to gain unauthorized access and control over systems and networks
- Implement Web Application Hacking Techniques
- Understand common web application vulnerabilities such as SQL injection, XSS, and CSRF, and learn to exploit them effectively
- Develop Skills in Wireless Network Security Testing
- Learn how to test and secure wireless networks against common attacks such as Wi-Fi cracking and man-in-the-middle (MITM) attacks
- Analyze and Defend Against Malware and Exploits
- Study various types of malware, their attack vectors, and defensive strategies to mitigate their impact on systems
- Apply Ethical Hacking in Real-World Scenarios
- Engage in practical exercises and simulations that mimic real-world cyber-attacks, applying ethical hacking techniques to secure systems and improve defenses
- By the end of the course, participants will have a comprehensive understanding of ethical hacking principles, practical skills in various hacking techniques, and the ability to apply these skills to enhance cybersecurity measures in their organizations.

## Course outline

Day 1: Introduction to AI in Cybersecurity

Day 2: AI Techniques for Offensive Security

Day 3: AI Techniques for Defensive Security

Day 4: Advanced AI Techniques and Application in Security

Day 5: AI Integration and Future Trends