



SAVORY MINDS

***ETHICAL HACKING
CORE + ESSENTIALS***

Ethical Hacking

**Kick-Start your career in
Cybersecurity Today!**

Level: Beginner-Intermediate

No Prior Experience Required

Premium Classes | Hands-on Sessions | CEH
Expertise

WWW.SAVORYMINDS.COM

SAVORY MINDS CORE + ESSENTIALS SERIES

To address the increasing talent gap and shortage of skilled cybersecurity professionals, Savory Minds, the creator of the top-tier Certified Ethical Hacker (C|EH) program, has introduced the Core + Essentials Series (EH|CES). This program provides comprehensive, hands-on technical training designed to prepare learners for entry-level positions in cybersecurity. Our objective is to develop a skilled workforce ready to take on roles such as systems analysts, cybersecurity analysts, incident analysts, and more, through instructor-led learning that remains affordable.

This series is an engaging, hands-on program focusing on Four critical cybersecurity domains: Ethical Hacking, Networking, Digital Forensics, Penetration Testing. This series is ideal for graduates, career switchers, beginners, and IT/Technology teams with little to no prior experience in IT/Cybersecurity, enabling them to specialize in essential areas.

Start Your Cybersecurity Journey Today!

What is Savory Minds Cyber Labs?

It is an introductory Cybersecurity Certifications, Training offering platform that lays the foundation in ethical hacking and penetration testing, equipping learners for a career in cybersecurity. This course covers key topics such as threats and vulnerabilities, password cracking, web application attacks, IoT, cloud computing, and penetration testing fundamentals, hands-on practical experience, giving learners the necessary skills for a future in cybersecurity.

Test your skills with our exciting Exercises, seamlessly integrated into our Capstone project. This includes live virtual machines, genuine software, and real networks, all within a secure and regulated environment. These exclusive hands-on, human-versus-machine challenges will help you develop the practical skills essential for success in your cyber professional role.

EH|CES Certified learners gain formal recognition, enhancing their resumes and showcasing their expertise to prospective employers. This certification boosts their employment prospects, leads to higher salaries, and increases job satisfaction.

If you're ready to advance your knowledge in ethical hacking, explore our Ethical Hacking Certification (Certified Ethical Hacker C|EH) v.12

Ethical Hacking Core + Essentials

Ignite Your Cybersecurity Career with Savory Minds

No IT or Cybersecurity Experience Needed

- **Engaging Video Lessons**
 - **Interactive Hands-on Labs**
 - **Thrilling Challenges**
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Why Choose Ethical Hacking Essentials?

At Savory Minds, we're bridging the gap in cybersecurity expertise with our Ethical Hacking Essentials program. Tailored for graduates, career changers, and IT teams, this immersive, affordable course will equip you with the skills necessary for entry-level cybersecurity roles.

Discover the Future of Cybersecurity

Dive into the dynamic world of ethical hacking and penetration testing. Explore the fundamentals of computer and network security, learn about threats and vulnerabilities, and master password cracking, web application attacks, IoT, cloud security, and more.

Achieve Your Certification and Stand Out

Earn the prestigious EH|CES certification, showcasing your expertise to employers and enhancing your career opportunities.

Course Outline

Module 1: Information Security Basics

- **Security Fundamentals**
 - Understanding CIA Triad: Confidentiality, Integrity, Availability
 - Information Security Management Systems (ISMS)
- **Laws & Regulations**
 - GDPR, HIPAA, and other essential regulations

Module 2: Ethical Hacking Fundamentals

- **Cyber Kill Chain**
 - Reconnaissance, Weaponization, Delivery, Exploitation, Installation, Command & Control, Actions on Objectives
- **Hacker Classes & Concepts**
 - Black Hat, White Hat, Grey Hat

- **Hacking Cycle**
 - Reconnaissance, Scanning, Gaining Access, Maintaining Access, Covering Tracks
- **Essential Tools**
 - Nmap, Wireshark, Metasploit

Lab Exercises

- **Passive Footprinting**
 - Using Maltego and Recon-ng
- **Network Scanning**
 - With Nmap and Advanced IP Scanner
- **Enumeration Techniques**
 - Utilizing Enum4linux and SMBclient

Module 3: Threats & Vulnerability Assessment

- **Understanding Threats**
 - APTs, Ransomware, Phishing, Insider Threats
- **Malware Types & Defenses**
 - Trojans, Worms, Ransomware, and their countermeasures
- **Vulnerability Analysis**
 - Using OpenVAS, Nessus, and Nexpose

Lab Exercises

- **Conduct Vulnerability Assessments**
 - Comprehensive scanning with Nessus

Module 4: Password Cracking Techniques

- **Cracking Methods & Tools**
 - John the Ripper, Hashcat, Hydra
- **Preventive Measures**
 - Multi-Factor Authentication, Strong Password Policies

Lab Exercises

- **Online Password Attacks**
 - Brute force and dictionary attacks using Hydra
- **System Password Audits**
 - Security audit using John the Ripper

Module 5: Social Engineering Techniques

- **Phases & Techniques**
 - Pretexting, Phishing, Baiting, Tailgating
- **Insider Threats**
 - Recognizing and mitigating insider threats
- **Countermeasures**

- Security Awareness Training, Email Filtering

Lab Exercises

- **Credential Sniffing**
 - Using Wireshark and Ettercap
- **Phishing Attack Detection**
 - With SET (Social Engineering Toolkit)

Module 6: Network Attacks

- **Packet Sniffing**
 - Tools: Tcpdump, Wireshark
- **DoS & DDoS Attacks**
 - Techniques and mitigation strategies
- **Session Hijacking**
 - Tools and techniques for detection and prevention

Lab Exercises

- **MAC Flooding**
 - Compromising network switches with Ettercap
- **ARP Poisoning**
 - Diverting communication using Bettercap
- **DDoS Mitigation**
 - Protecting networks with tools like Snort and Suricata
- **Session Hijacking Detection**
 - Using Burp Suite for session management

Module 7: Web Application Attacks

- **Server & Application Attacks**
 - OWASP Top 10 vulnerabilities
- **SQL Injection and XSS Attacks**
 - Detection and prevention techniques

Lab Exercises

- **Server Attack Execution**
 - Exploiting vulnerabilities with Burp Suite
- **Web Application Exploitation**
 - Using OWASP ZAP
- **SQL Injection Defense**
 - Automated detection with SQLMap

Module 8: Wireless Attacks

- **Wireless Terminology**
 - WPA, WPA2, WEP
- **Encryption Techniques**

- Understanding and cracking encryption protocols
- **Attack Strategies**
 - Tools like Aircrack-ng, Kismet

Lab Exercises

- **Wi-Fi Packet Analysis**
 - Capturing packets with Aircrack-ng
- **Wireless Network Penetration**
 - Using Reaver for WPS attacks

Module 9: Mobile Attacks

- **Mobile Attack Vectors**
 - Exploiting mobile vulnerabilities
- **Device Management & Security**
 - MDM solutions, secure coding practices

Lab Exercises

- **Android Device Hacking**
 - Creating payloads with Metasploit
- **Securing Mobile Devices**
 - Best practices and tools for mobile security

Module 10: IoT & OT Attacks

- **IoT Concepts**
 - Device vulnerabilities, attack vectors
- **Operational Technology Threats**
 - ICS/SCADA security

Lab Exercises

- **IoT Traffic Analysis**
 - Monitoring and analyzing IoT device traffic with Wireshark

Module 11: Cloud Computing Threats

- **Cloud Security Fundamentals**
 - Understanding IaaS, PaaS, SaaS
- **Threats & Countermeasures**
 - Identity and Access Management (IAM), Secure DevOps

Lab Exercises

- **S3 Bucket Enumeration**
 - Using AWS CLI for security testing

Module 12: Penetration Testing Fundamentals

- **Pen Testing Strategies**
 - Planning, Execution, Reporting
 - **Testing Phases & Guidelines**
 - Methodologies: OSSTMM, NIST
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Key Features

- **20+ hours of engaging video training**
 - **15 interactive lab activities**
 - **Comprehensive Hands-on Material**
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Benefits

- **Practical Skills:** Gain hands-on experience with industry-standard tools.
- **Job Readiness:** Prepare for roles like Cybersecurity Analyst, Penetration Tester, and more.
- **Recognized Certification:** Enhance your resume with globally recognized EH|CES certification.
- **Comprehensive Learning:** Cover all essential domains in cybersecurity.

Why It's Necessary in the Present World

With cyber threats evolving rapidly, organizations need skilled professionals to defend their networks. Ethical hackers are critical in identifying and mitigating vulnerabilities before malicious actors can exploit them.

How It's Promising for Your Career

Cybersecurity is one of the fastest-growing fields, with high demand for qualified professionals. Certified ethical hackers often enjoy lucrative salaries and excellent job security.

Who Should Choose This Course?

- **High School Students & Graduates:** Start your cybersecurity career early.
 - **Career Switchers:** Transition into the cybersecurity field with foundational knowledge.
 - **IT Professionals:** Enhance your skill set and advance your career.
 - **Beginners:** No prior experience needed, just a passion for cybersecurity.
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About Cyber Labs

Savory Minds Cyber Labs is dedicated to cultivating cybersecurity professionals through innovative, accessible training programs. Our globally recognized certifications empower individuals and organizations to build robust cybersecurity defence. Trusted by industry leaders and academic institutions worldwide, we are committed to shaping the future of cybersecurity education.

Our Achievements

- Trusted by top organizations for our training programs.
- **Global Presence:** Operating in over 4+ States.
- **Industry Recognition:** ISO Certified

Ready to Transform Your Future?

Learn more and Enroll today at www.savoryminds.com
