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SAVORY MINDS

FORENSICS
CORE+ESSENTIALS

FORENSICS

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

Level: Beginner-Intermediate

No Prior Experience Required
Premium Classes | Hands-on Sessions | CEH
Expertise

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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

Forensics 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 Forensics 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 01: Introduction to Computer Forensics

Concepts Covered:

- Basics of Digital Forensics
- Handling and Preserving Digital Evidence
- Forensic Readiness Planning
- Roles and Responsibilities of a Forensic Investigator
- Legal and Ethical Compliance in Forensics

Hands-on Tools:

- **Autopsy:** Easy-to-use GUI for digital forensics
- **dcfldd:** Enhanced version of dd forensics imaging
- **GHex:** Hex editor for data analysis

Lab Exercises:

- Collecting Digital Evidence using Autopsy
 - Creating Forensic Disk Images with dcfldd
 - Analyzing Data with GHex
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Module 02: The Forensic Investigation Process

Concepts Covered:

- Steps of Forensic Investigation
- Pre-Investigation Procedures
- Active Investigation Techniques
- Post-Investigation Reporting

Hands-on Tools:

- **md5sum**: Integrity checking tool
- **binwalk**: Firmware analysis tool
- **Sleuth Kit**: Suite of command line forensic tools

Lab Exercises:

- Integrity Verification using md5sum
 - Extracting Firmware Data with binwalk
 - File System Analysis with Sleuth Kit
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Module 03: Hard Disks and File Systems

Concepts Covered:

- Types of Disk Drives
- Disk Structure and Boot Process
- File Systems Overview (Windows, Linux, Mac)
- File System Examination

Hands-on Tools:

- **TestDisk**: Partition recovery tool
- **extundelete**: Recovery tool for ext3/ext4 file systems
- **photorec**: File data recovery tool

Lab Exercises:

- Partition Recovery with TestDisk
- Recovering Deleted Files using extundelete

- Data Recovery with photorec
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Module 04: Data Acquisition Techniques

Concepts Covered:

- Fundamentals of Data Acquisition
- Types of Data Acquisition
- Data Acquisition Formats
- Data Acquisition Methodology

Hands-on Tools:

- **dd**: Data duplication and conversion tool
- **Guymager**: Graphical forensic imaging tool
- **dc3dd**: Advanced disk imaging tool

Lab Exercises:

- Creating Disk Images with dd
 - Disk Imaging with Guymager
 - Using dc3dd for Advanced Imaging
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Module 05: Defeating Anti-Forensics

Concepts Covered:

- Understanding Anti-Forensics
- Techniques to Counter Anti-Forensics

Hands-on Tools:

- **foremost**: File carving tool
- **bulk_extractor**: Extract useful information from disk images
- **ophcrack**: Password cracking tool

Lab Exercises:

- File Carving with foremost
 - Data Extraction using bulk_extractor
 - Password Cracking with ophcrack
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Module 06: Windows Forensics

Concepts Covered:

- Volatile vs. Non-Volatile Data
- Memory and Registry Analysis
- Browser Artifacts and Metadata

Hands-on Tools:

- **Volatility:** Memory forensics framework
- **RegRipper:** Windows Registry data extraction
- **Browser History Examiner:** Analyze web browser artifacts

Lab Exercises:

- Memory Forensics with Volatility
 - Registry Analysis using RegRipper
 - Web Browser Artifact Analysis
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Module 07: Linux and Mac Forensics

Concepts Covered:

- Data Analysis on Linux and Mac
- Using The Sleuth Kit for File System Analysis
- Memory Forensics and Data Recovery

Hands-on Tools:

- **extundelete:** File recovery for ext3/ext4
- **Chkrootkit:** Rootkit detector
- **Volatility:** Memory analysis

Lab Exercises:

- Forensic Analysis of Linux Systems
 - Data Recovery using extundelete
 - Memory Forensics for Mac with Volatility
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Module 08: Network Forensics

Concepts Covered:

- Basics of Network Forensics
- Event Correlation and Indicators of Compromise (IoCs)
- Network Traffic Analysis

Hands-on Tools:

- **Wireshark:** Network protocol analyzer
- **tcpdump:** Network packet analyzer
- **Snort:** Intrusion detection system

Lab Exercises:

- Analyzing Network Traffic with Wireshark
 - Packet Capturing with tcpdump
 - Detecting Network Attacks with Snort
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Module 09: Investigating Web Attacks

Concepts Covered:

- Fundamentals of Web Application Forensics
- Log Analysis (IIS and Apache)
- Investigating Web Attacks

Hands-on Tools:

- **Burp Suite:** Web vulnerability scanner
- **Nikto:** Web server scanner
- **Splunk:** Log analysis platform

Lab Exercises:

- Web Vulnerability Scanning with Burp Suite
 - Server Scanning using Nikto
 - Log Analysis with Splunk
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Module 10: Dark Web Forensics

Concepts Covered:

- Understanding the Dark Web
- Forensics of the Tor Browser
- Analyzing Dark Web Activities

Hands-on Tools:

- **Tor Browser:** Anonymity tool
- **Volatility:** Memory analysis
- **Bulk Extractor:** Dark web artifact extraction

Lab Exercises:

- Detecting Tor Browser Usage
 - Analyzing RAM Dumps for Dark Web Activity
 - Extracting Dark Web Artifacts
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Module 11: Investigating Email Crimes

Concepts Covered:

- Basics of Email Forensics
- Steps in Investigating Email Crimes

Hands-on Tools:

- **Mailsnarf:** Email packet capture
- **Exim:** Email server for analysis
- **p0f:** Passive OS fingerprinting

Lab Exercises:

- Investigating Suspicious Emails with Mailsnarf
 - Analyzing Email Server Logs with Exim
 - OS Fingerprinting with p0f
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Module 12: Malware Forensics

Concepts Covered:

- Understanding Malware
- Malware Analysis Techniques
- Static and Dynamic Analysis
- System and Network Behavior Analysis

Hands-on Tools:

- **ClamAV:** Antivirus software
- **Yara:** Malware detection
- **Cuckoo Sandbox:** Automated malware analysis

Lab Exercises:

- Static Analysis with ClamAV
 - Malware Detection using Yara
 - Dynamic Analysis with Cuckoo Sandbox
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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
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Ready to Transform Your Future?

Learn more and Enroll today at www.savoryminds.com
