



Graduate Program in ETHICAL HACKING & CYBER SECURITY

Course Objective

The Graduate Program in Ethical Hacking & Cyber Security at eHack Academy is a 7-9 month comprehensive training designed to build strong foundational and intermediate cybersecurity skills. It covers IT fundamentals, network defence, ethical hacking, penetration testing, digital forensics, and security operations through live online and classroom sessions, real-time labs, and practical assessments. The program also includes globally recognized certifications like Certified Secure Computer User (CSCU) and Certified Network Defender (CND) to prepare you for entry-level cybersecurity roles and help you start a career defending systems against cyber threats.

Earn 2 Global Certifications



CSCU

Certified Secure Computer User

CND

Certified Network Defender

7-9 MONTHS

Duration

200+

Training Hours

2 YEARS

Membership

Course Syllabus

Module 00

ICE Breaker, Program Kick-off & Orientation -

Your journey into a high-growth cyber security career begins from Day One. The ICE Breaker & Orientation session is a power-packed 4-hour onboarding experience designed to align learners with industry expectations, global certifications, and a clear career roadmap—before core technical training begins.

What you'll learn:

- Interactive introductions to build confidence and collaboration
- Clear understanding of the Master's Program structure
- Alignment on learning discipline, ethics, and performance standards
- Setting expectations for real-world cyber security careers
- Introduction to eHack Academy – Institute of Emerging Technologies
- Overview of EC-Council, the world's leading cyber security certification body
- Academic, university, and industry partnerships
- Industry-aligned curriculum with real-world relevance
- Guided walkthrough of the EC-Council LMS
- Access to official courseware, labs, and licensed tools
- Importance of classroom training and hands-on practice
- Transparent evaluation, exam pattern, and certification process
- Cyber Security-specific resume building
- Understanding job roles, domains, and growth paths
- Smart job application strategies and LinkedIn optimization
- Long-term career success roadmap in cyber security

Module 01

P|CSF^{AI} - Professional | Cybersecurity Fundamentals Program^{AI} -

Build a strong foundation in IT essentials covering hardware, operating systems, networking, servers, and cloud technologies.

What you'll learn:

- Computer Hardware & Architecture
- Operating Systems (Windows/Linux/Mac)
- Networking Fundamentals
- TCP/IP & Network Protocols
- Server Administration Basics
- Cloud Computing Concepts
- Virtualization Technologies

- Basic Troubleshooting

Module 02

P|SCSP^{AI} - Professional | Secure Computer Systems Program^{AI} -

Learn essential cybersecurity awareness and secure computing practices from the official EC-Council CSCU curriculum.

What you'll learn:

- Introduction to Digital Security
- Operating System Protection Techniques
- Malicious Software and System Defense
- Internet Usage Security Practices
- Security Awareness for Social Media Platforms
- Email Communication Protection Methods
- Mobile Device Security Fundamentals
- Cloud Usage and Data Protection
- Network Connectivity and Access Security
- Data Backup and Business Continuity Planning
- Protection of Smart and Connected Devices
- Safe Digital Workspaces and Remote Access Security

Module 03

P|NDP^{AI} - Professional | Network Defense Program^{AI} -

Master the protect, detect, respond, and predict approach to network security from the official EC-Council CND v3 curriculum.

What you'll learn:

- Network Attacks and Defense Approaches
- Administrative Network Security
- Technical Network Security
- Network Boundary and Perimeter Security
- Endpoint Protection for Windows Systems
- Endpoint Protection for Linux Systems
- Endpoint Protection for Mobile Devices
- Endpoint Protection for IoT and Smart Devices
- Administrative Application Security
- Data Security and Protection Controls
- Network Threat Analysis and Response
- Network Policy and Governance Management
- Secure Network Architecture Design
- Perimeter Monitoring and Defense Systems
- Windows Endpoint Hardening Techniques

- Linux Endpoint Hardening Techniques
- IoT Security Administration
- Application Security Administration
- Enterprise Data Protection Strategies

Module 04

Ethical Hacking & Counter Measures -

Think like an attacker to defend like a professional. Master reconnaissance, exploitation, and vulnerability assessment.

What you'll learn:

- Footprinting & Reconnaissance
- Scanning Networks
- Enumeration Techniques
- Vulnerability Analysis
- System Hacking
- Malware Threats
- Sniffing & Packet Analysis
- Social Engineering
- Counter Measures & Defense

Module 05

Penetration Testing / Digital Forensics -

Choose between Penetration Testing or Digital Forensic Investigator track based on your career goals.

What you'll learn:

- Penetration Testing Methodologies
- Web Application Testing
- Network Penetration Testing
- Computer Forensics Process
- Evidence Acquisition & Analysis
- Memory & Disk Forensics
- Report Writing & Documentation

Module 06

OWASP Top 10 -

Master the OWASP Top 10 web application security risks and learn how to identify, exploit, and mitigate them.

What you'll learn:

- Injection Attacks (SQL, NoSQL, OS)
- Broken Authentication
- Sensitive Data Exposure
- XML External Entities (XXE)
- Broken Access Control
- Security Misconfigurations
- Cross-Site Scripting (XSS)
- Insecure Deserialization
- Using Components with Known Vulnerabilities
- Insufficient Logging & Monitoring

Module 07

Personality and Softskill Development -

Understand the importance of personality in career growth, industry expectations, and placement readiness.

What you'll learn:

- Self-Awareness & Confidence Building
- Attitude, Mindset & Professional Behavior
- Emotional Intelligence (EQ)
- Time Management & Productivity
- Verbal Communication Skills
- Non-Verbal Communication & Body Language
- Listening Skills & Question Handling
- Public Speaking & Presentation Skills
- Teamwork & Leadership Skills
- Corporate Communication Skills
- Problem-Solving & Critical Thinking
- Resume Building (ATS-Friendly)
- LinkedIn Profile & Personal Branding
- Group Discussion (GD) Techniques
- HR Interview Preparation
- Mock Interviews – HR & Technical
- Corporate Readiness & Workplace Ethics
- Placement Readiness & Career Roadmap

Module 08

3 Months Internship on real-time industry projects -

Each Master Program student must select ANY TWO advanced projects.

What you'll learn:

- Network Security & SOC Operations
- Application & Network Security Testing
- Digital Forensics & Incident Analysis
- Cloud Infrastructure Security

