



COURSE BROCHURE

Become a Certified
Professional Ethical Hacker

What is Cybersecurity?

Cybersecurity is the defense of systems, networks, and data from digital attacks. It protects privacy, ensures secure communications, and prevents financial loss.

According to Cybersecurity Ventures, cybercrime will cost the world \$10.5 trillion USD annually by 2025 — making cybersecurity one of the fastest-growing, most critical industries today.

A hacker attack occurs every **39 seconds** (University of Maryland research)

Over **3.5 million** cybersecurity jobs will go **unfilled** globally this year

97% of CEOs consider cybersecurity a top business risk in 2024

High Demand. Global Relevance. Real Impact.

Cybersecurity is no longer an optional skill — it's a necessity across every industry. As digital infrastructures expand, the need for skilled professionals to protect them continues to rise.

45+ Roles

Mapped to ethical hacking and cybersecurity certifications. From SOC Analyst to AI Threat Engineer.

2x Faster Growth

Cybersecurity job growth is outpacing other tech sectors.



Company Overview

ZecurX is a cutting-edge cybersecurity and technology enterprise offering a full spectrum of offensive security services, enterprise-grade solutions, and security-integrated product development. We specialize in helping organizations proactively secure their infrastructure, applications, and digital assets while enabling innovation through secure development practices.

With a strong foundation in ethical hacking and offensive security, ZecurX is built by certified professionals with international recognition. We combine hands-on penetration testing with secure software engineering and network hardening, empowering enterprises to stay ahead of evolving cyber threats.



Vision

To become a global leader in enterprise cybersecurity and secure technology innovation by integrating proactive defense, offensive security, and AI-powered solutions across digital ecosystems.

Mission

To deliver enterprise-grade cybersecurity services, secure software products, and advanced training solutions, helping businesses, institutions, and developers build and maintain trusted, attack-resilient systems.



Core Offerings

Enterprise Cybersecurity Services

- **Penetration Testing as a Service (PTaaS):** Real-time vulnerability discovery and exploitation reporting with remediation roadmap, covering web apps, APIs, networks, cloud, IoT, and Active Directory.
- **Vulnerability Assessment & Risk Auditing:** Industry-standard audits (OWASP, NIST, ISO) for risk profiling, compliance alignment, and asset protection.
- **Red Team Assessments:** Simulated adversarial attacks tailored for enterprise security stress testing and breach detection.
- **Security Operations & Threat Hunting:** Continuous monitoring, behavior-based threat detection, and response strategies for advanced persistent threats (APT).

Secure Software Development & Web Solutions

- **Web & Application Development:** Scalable, custom-built web platforms and enterprise-grade applications designed with DevSecOps integration.
- **Security-Centric Code Review & Testing:** Manual and automated code analysis to identify logical and architectural flaws before deployment.
- **Cloud Application Security:** Design and hardening of secure cloud-native applications (AWS, Azure, GCP) with CI/CD security gates.
- **Enterprise Dashboard & Portals:** Robust, role-based portals for academic institutions, internal enterprise tools, and real-time analytics.



Core Offerings

Corporate & Institutional Training Programs

- **Enterprise Cybersecurity Training (Offline + Cloud-Labs):** 160-hour AI-powered, hands-on training program for corporate teams, IT departments, and academic partners.
- **Faculty Development Programs (FDP):** Up-skilling faculty members in offensive security, red teaming, and secure programming principles.
- **Custom Workshops & Seminars:** Tailored workshops in Offensive Security, Ethical Hacking, and Awareness Programs for colleges and corporates.
- **Certification Programs:** Proprietary certifications like zxCPEH and zxCPPT with verifiable license numbers, ranked trainers, and national-level recognition.

Key Differentiators

- **Enterprise-First Approach:** We design, test, and deliver with enterprise environments in mind: scalable, secure, and compliant.
- **End-to-End Security Integration:** From code to cloud, our services embed security throughout the SDLC and deployment.
- **Original IP & Tools:** All CTFs, training modules, and utilities are 100% original and branded under ZecurX.
- **Verified Certifications:** Our students receive certifications traceable on the ZecurX platform via license ID.
- **Elite Talent Pool:** Our team includes EC-Council Certified Ethical Hackers and industry-recognized professionals.



Master Real-World Cybersecurity with the ZecurX Certified Professional Ethical Hacker Program

The digital world is evolving — and so are its threats. The ZecurX Certified Professional Ethical Hacker (zxCPEH) program is built to equip the next generation of cybersecurity professionals with real-world offensive security skills that go far beyond theoretical learning.

Through structured, instructor-led training and immersive lab environments, zxCPEH offers you the tools, techniques, and frameworks used by real-world ethical hackers to identify and exploit vulnerabilities, strengthen defenses, and think like an attacker.

ZecurX isn't just about teaching you how to hack — it's about preparing you to secure digital infrastructures across industries by mastering the fundamentals of ethical hacking with practical, hands-on exposure.

What Sets ZecurX CPEH Apart

Real-World Training

Simulate full attack chains—from recon to reporting—on live targets in controlled environments.

Relevant Curriculum

Covers the latest threats, tools, and techniques used by modern security teams.

Hands-On Labs

Isolated lab access to practice attacks on networks, systems, and web platforms.

Expert Instructors

Taught by EC-Council-certified professionals with real-world experience.

Recognized Certification

Finish with a verifiable certificate trusted by employers and institutions.

How ZecurX CPEH Redefines Your Cybersecurity Career

- Master the complete ethical hacking lifecycle—from reconnaissance to reporting
- Train through real-world simulations and red-team attack chains
- Gain hands-on experience with 200+ labs, live environments, and modern toolsets
- Work with tools used by actual security teams, including custom-built ZecurX frameworks
- Learn the latest attack techniques, evasion methods, and countermeasures
- Practice in a fully equipped lab portal covering web, network, wireless, and IoT systems
- Participate in weekend Capture The Flag (CTF) events and live challenges
- Get ranked on the ZecurX Leaderboard and earn recognition through CTF badges
- Receive mentorship from certified professionals and red-team practitioners
- Graduate with a verified ZecurX CPEH certification mapped to real job roles
- Get access to internships, placement support, and exclusive partner opportunities

What You'll Master in the ZecurX Certified Professional Ethical Hacker (zxCPEH)



These five core phases form the foundation of every real-world ethical hacking engagement taught in the ZecurX CPEH program.



Learn to Exploit and Defend Real Systems

At ZecurX, you'll go beyond theory to understand and exploit real-world vulnerabilities. Our zxCPEH program trains you to identify, simulate, and secure against the most common threats faced by modern systems—mirroring the most critical issues highlighted by industry frameworks like OWASP.

Key Topics Covered

- Injection Flaws and Output Handling
- Training Data Poisoning and Model Abuse
- Denial of Service and Exploit Chaining
- Supply Chain and Plugin Vulnerabilities
- Information Disclosure and Credential Theft
- Social Engineering and Behavioral Exploits
- Model Overload and System Misuse Tactics
- Privilege Mismanagement and Escalation Paths

Master Offensive Security with ZecurX

ZecurX equips you with the mindset and capabilities of a modern ethical hacker. Our programs blend structured training with scenario-based labs to prepare you for live environments, bug bounty work, and enterprise-grade security roles.

What You'll Gain

Execute end-to-end hacking operations across all attack phases

Build custom tools and payloads used in live red-team labs

Detect and exploit vulnerabilities in networks, apps, IoT, and cloud

Participate in gamified challenges and ranked CTF competitions

Learn to bypass modern security controls, including IDS and firewalls

Practice against real-world attack chains inside the ZecurX lab portal



ZecurX Certified Professional Ethical Hacker- A 4-Phase Real-World Learning Framework

The ZecurX CPEH is a specialized, hands-on certification program built for those who want to move beyond theory and into real-world cybersecurity. Our structured framework trains you across four essential stages—combining instructor-led training, live labs, assessments, and competitive challenges.

From foundational techniques to advanced exploit development, this approach ensures you're not just certified, but field-ready.

More than a certification—ZecurX prepares you to think like an attacker, defend like a professional, and stand out in the cybersecurity space.

Learn

Courseware + Lab Access

1

Certify

Structured Exam
Gain Recognition

2

Engage

Live Labs + Red Team Simulations
Gain Experience

3

Compete

Capture The Flag Challenges
Gain Respect

4



Step Into Cybersecurity with ZecurX

Whether you're starting your journey in ethical hacking or looking to master advanced red team operations, ZecurX offers two focused, outcome-driven certification tracks: zxCPEH and zxCPPT. These programs are designed to equip you with the technical depth, hands-on experience, and industry relevance required to thrive in the cybersecurity field.

ZecurX CPEH (zxCPEH) – Ethical Hacking Starts Here

zxCPEH is our foundation-level certification built for students and professionals who want to develop core skills in ethical hacking. This program blends theory with real-world scenarios, giving you access to live labs, guided modules, and simulated attack environments. You'll learn to think like a hacker, understand how breaches occur, and most importantly—how to prevent them.

From reconnaissance to exploitation, zxCPEH trains you to execute full attack chains in a safe, controlled setting while preparing you for real cybersecurity roles in today's threat landscape.

ZecurX CPPT (zxCPPT) – Offensive Security, Elevated

zxCPPT is a next-level training path for those who want to go beyond ethical hacking and into full-scale penetration testing and red teaming. Built on advanced infrastructure, zxCPPT covers critical areas like Active Directory attacks, cloud exploitation, SCADA hacking, and adversary simulation.

This course is designed for learners who are ready to test and push the limits of secure systems—working with real tools, real exploits, and complex threat modeling. With dedicated labs and capstone assessments, zxCPPT delivers enterprise-grade offensive security experience that sets you apart in the industry.





ZecurX

Break. Build. Secure

zxCPEH: ZecurX Certified Professional Ethical Hacker

COURSE OVERVIEW

v1.0

zxCPEH

ZecurX Certified Professional Ethical Hacker (zxCPEH)

zxCPEH Skills Mapped To Cybersecurity Job Roles

| zxCPEH SKILL AREA | MAPPED JOB ROLES |
|--|--|
| Vulnerability Assessment & Scanning | Vulnerability Analyst, Security Analyst |
| AI-Powered Reconnaissance & OSINT | Threat Intelligence Analyst, SOC Analyst |
| Network Scanning & Enumeration | Network Security Engineer, Penetration Tester |
| System Hacking & Exploitation | Ethical Hacker, Red Team Specialist |
| Malware Analysis & Reverse Engineering | Malware Analyst, Cybersecurity Researcher |
| Social Engineering & Phishing | Cybersecurity Awareness Officer, Security Consultant |
| Wireless & Mobile Hacking | Cybersecurity Awareness Officer, Security Consultant |
| AI in Cyber Defense | AI Security Engineer, SIEM Engineer |
| Report Writing & Documentation | Security Compliance Analyst, Audit Associate |

Career Pathways After zxCPEH Certification

Entry-Level Roles:

- SOC Analyst
- Network Administrator

Intermediate Roles:

- Ethical Hacker
- Security Engineer

Advanced Roles:

- Threat Hunter
- Red Team Lead



ZecurX Certified Professional Ethical Hacker (zcCPEH)

Course Overview

The zxCPEH course is a hands-on, AI-integrated ethical hacking program designed for students aiming to break into the cybersecurity industry. From understanding how hackers operate to defending real-world infrastructure, this course delivers comprehensive, lab-driven training in an immersive and accessible format.

Course Objectives

- Learn ethical hacking fundamentals and real-world attack techniques
- Master AI-powered cybersecurity tools for red and blue teaming
- Perform reconnaissance, exploitation, and report generation
- Build critical thinking to tackle modern digital security challenges
- Experience real-time labs and themed Capture the Flag (CTF) competitions

What You'll Achieve

- ZecurX Certified Professional Ethical Hacker (zcCPEH) credential
- Hands-on experience across IoT, Web, Cloud, and Active Directory environments
- Familiarity with AI-integrated tools like ReconAI, VulnRanker, and SniffX
- Completion certificate with a verifiable license ID
- Scoreboard ranking and recognition in CTF simulations

Course Fee

INR 25,000 (Including GST)

Includes: Instructor-led training, lab access, certification, CTF participation, and placement support.

Gamified CTF Experience

Students participate in real-world CTF (Capture the Flag) simulations based on immersive, story-driven scenarios:

- Harry Potter: Hack the Ministry of Magic's server
- Squid Game: Survive a deadly vulnerability challenge
- Anonymous Infiltration: Breach a darknet marketplace
- Cyber-Heist: Crack into an AI-controlled vault system

Each challenge is designed to simulate actual attack chains in a safe, competitive environment that builds practical skill and engagement.



ZecurX Certified Professional Ethical Hacker (zxCPEH)

Program Highlights

Access to an Exclusive Community: Get connected with like-minded learners and cybersecurity experts through 20 expert-curated modules.

Proctored Examination: Validate your knowledge and skillset with a structured, supervised final exam.

Internship Opportunities: Unlock real-world experience through performance-based internship offers.

25 Hours of Live Training: Instructor-led, hands-on sessions designed for practical mastery.

Access to ZecurX Lab: Full access to a suite of advanced ethical hacking tools and environments.

Weekend Contests & Activities: Participate in weekly challenges and sharpen your skills in competitive scenarios.

Exclusive ZecurX Merchandise: Win premium merchandise through performance and participation.

Recognized Certification: Earn a globally accepted ethical hacking credential under the ZecurX brand.

COURSE OUTLINE

Unlock your potential
with 20 modules of
zxCPEH



ZecurX Certified Professional Ethical Hacker (zxCPEH)

Course Modules

| | | |
|-----------|---|---|
| Module 1 | Penetration Testing Concepts & Lab | Understand the foundations of penetration testing, methodologies, and set up your custom offensive security lab. |
| Module 2 | Engagement Rules & Legal Warfare | Master rules of engagement, NDAs, legal boundaries, and client interaction processes in real-world assessments. |
| Module 3 | Active & Passive Reconnaissance | Utilize tools and techniques for gathering intelligence through passive and active reconnaissance phases. |
| Module 4 | Vulnerability Scanning & Custom Exploit Scripting | Identify system flaws and build custom exploits using Python, Bash, and exploit development frameworks. |
| Module 5 | Gaining Access – Network & Host Exploitation | Exploit network services, misconfigurations, and open ports to gain unauthorized access to internal systems. |
| Module 6 | Web Application Exploitation | Attack web apps using SQLi, XSS, LFI/RFI, and bypass authentication mechanisms. |
| Module 7 | Wireless Penetration Testing | Crack wireless encryption, create rogue APs, and exploit wireless misconfigurations. |
| Module 8 | Privilege Escalation (Linux & Windows) | Leverage local exploits, kernel vulnerabilities, and misconfigurations to escalate privileges on compromised systems. |
| Module 9 | Post Exploitation & Lateral Movement | Maintain persistence, pivot through networks, and move laterally in enterprise environments. |
| Module 10 | Active Directory Attacks & Kerberoasting | Compromise AD environments using techniques like Kerberoasting, Pass-the-Hash, and DCSync. |

ZecurX Certified Professional Ethical Hacker (zxCPEH)

Course Modules

| | | |
|-----------|---|--|
| Module 11 | Advanced Binary Exploitation | Perform stack-based buffer overflows, shellcode injection, and exploit custom compiled binaries. |
| Module 12 | Metasploit Mastery & Payload Crafting | Build, customize, and deliver advanced payloads using Metasploit modules and auxiliary tools. |
| Module 13 | AI in Exploitation & Obfuscation | Use AI to automate payload delivery, avoid detection, and create adaptive malware. |
| Module 14 | API & Mobile Application Testing | Pen test APIs and mobile apps (Android/iOS) using tools like Burp Suite, MobSF, and Frida. |
| Module 15 | Cloud Infrastructure Exploitation | Simulate attacks on AWS, Azure, and GCP environments – enumerate, misconfigure, exploit. |
| Module 16 | IoT & Embedded Systems Hacking | Reverse engineer IoT firmware, intercept traffic, and exploit hardware-level vulnerabilities. |
| Module 17 | ICS/SCADA Systems Exploitation | Understand industrial control protocols and simulate attacks on ICS/SCADA infrastructures. |
| Module 18 | Red Team Operations & Threat Simulation | Conduct full-scope red team assessments with C2 frameworks, evasive techniques, and scenario-based execution. |
| Module 19 | Documentation, Reports & Client Debrief | Create professional-grade reports, chain of custody documents, and conduct technical/non-technical debriefs. |
| Module 20 | Final Black-Box Lab Simulation | Execute a complete black-box pentest with scoring – simulate real-world enterprise attack scenarios under time pressure. |

Clientele & Collaboration

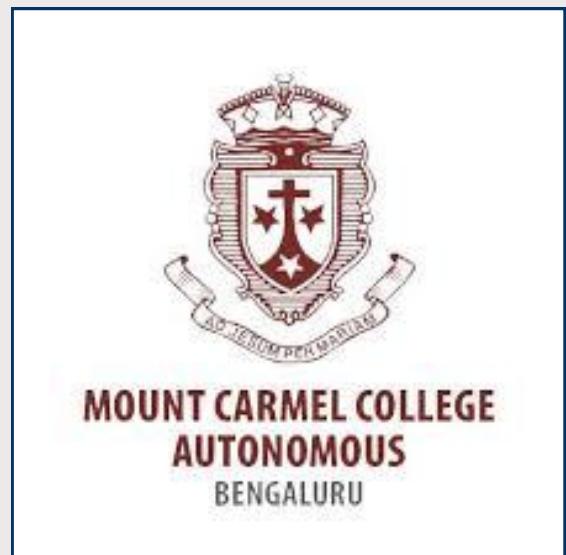
We have partnered with 12+ academic institutions and several private organizations, delivering:

- **Cybersecurity** solutions,
- **Training** for students and staff,
- **Internship** and placement **support**,
- Hackathons and tech **events**.

Let's Secure the Future – Together

Whether you're a growing business, a large enterprise, or an academic institution, ZecurX offers the tools, talent, and technology to Break, Build, and Secure your digital presence with confidence.

Our Partners



& many more





We Don't Just Teach Cybersecurity

We Build Red Teamers.

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