

# COURSE BROCHURE

Become a Certified  
Professional Penetration  
Tester

# 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 Penetration Tester Program

Move beyond theory into live, adversary-style engagements. zxCPPT trains you to think and operate like attackers—identifying, exploiting, and chaining vulnerabilities across web, network, cloud, IoT, and Active Directory.

Instructor-led modules combine hands-on penetration testing, threat emulation, automation, and defense-bypass exercises inside immersive labs. You'll use real tools and scripts, practice post-exploitation and privilege escalation, and automate assessments for enterprise realism.

By program end you'll not only find vulnerabilities but exploit, document, and report them with professional precision—ready for corporate red-team work. Join the elite who defend through offense. **Break boundaries. Build skills. Secure the future.** With zxCPPT.

## What Sets ZecurX CPPT Apart

### Real-world simulations

Enterprise-grade labs covering AD, multi-tier web, cloud, and IoT.

### Adversary-first methodology

Full red-team kill chain from recon to reporting.

### Manual exploitation focus

Priv-esc, exploit development, and evasion beyond automation.

### Expert mentorship & proprietary tools

Certified red-team instructors plus ZecurX simulators/CTFs.

### Career-ready certification

Project assessments, professional reports, and employer-trusted credential.

## How ZecurX CPPT Transforms You into a Real-World Penetration Tester

Master enterprise-grade penetration testing from recon to post-exploitation

Simulate real adversary campaigns using advanced red-team methodology

Train in live corporate-style labs across Web, Network, AD, Cloud, and IoT

Execute complex multi-vector attacks, lateral movement, and privilege escalation

Focus on manual exploitation and vulnerability chaining beyond scanners

Use professional tools — Burp Suite Pro, Metasploit, Cobalt Strike, BloodHound

Apply stealth, persistence, and post-exploitation techniques from real ops

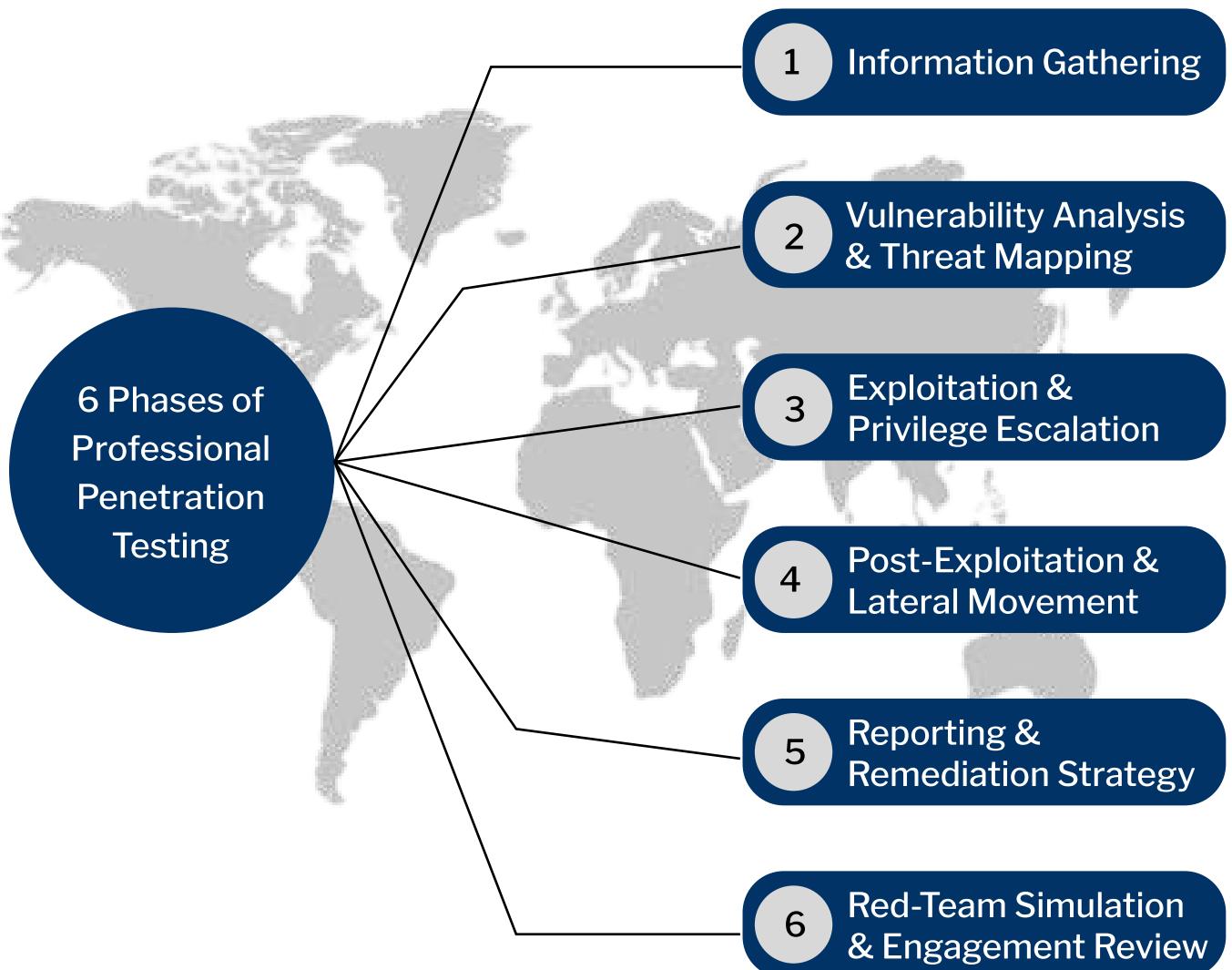
Practice on custom ZecurX attack frameworks and realistic breach simulations

Compete in CTFs, get ranked on the ZecurX Leaderboard, earn badges

Build professional pentest reports, evidence, and remediation roadmaps

Receive mentorship, internships, and CPPT certification aligned to job roles

# What You'll Master in the ZecurX Certified Professional Penetration Tester (zxCPPT)



These six advanced phases define the complete offensive security cycle mastered by professionals in the ZecurX CPPT program bridging classroom learning with real-world breach simulation.



# Learn to Breach, Persist, and Secure Enterprise Systems

At ZecurX, the zxCPPT program goes beyond scanning to teach the adversarial mindset of a professional penetration tester. Learn to breach enterprise AD, multi-tier web, and hybrid cloud environments, maintain persistence, and produce precise exploit and remediation reports.

## Key Topics Covered

- Advanced Network & Web Exploitation
- Active Directory & Privilege Escalation
- Post-Exploitation, Lateral Movement & Persistence
- Bypassing EDR, AV & Defensive Controls
- Cloud, Container & Supply-Chain Assessments
- Exploit Development, Shellcode & Exploit Chaining
- Wireless, IoT Scenarios & Professional Reporting

## Master Offensive Security with ZecurX

ZecurX equips you with the mindset, discipline, and expertise of real-world red-team operators. The zxCPPT program blends theory with mission-driven labs, helping you transition from student to offensive security professional ready for enterprise testing and red-team engagements.

## What You'll Gain

- Execute end-to-end penetration tests across web, network, AD, and cloud
- Build & customize exploit scripts, payloads, and automation for red-team ops
- Run multi-stage intrusions with lateral movement and privilege escalation
- Hands-on use of ZecurX red-team frameworks, breach simulators, and labs
- Compete in advanced CTFs and gamified breach-emulation challenges
- Master stealth to bypass SIEM/EDR/IDS and produce enterprise pentest reports



# ZecurX Certified Professional Penetration Tester – A 4-Phase Real-World Offensive Security Framework

The ZecurX CPPT is a high-intensity, hands-on professional certification designed to turn ethical hackers into enterprise-grade penetration testers.

Through a structured four-phase framework, you'll train in real attack environments mastering advanced exploitation, post-exploitation, and reporting techniques used in real red-team operations.

From reconnaissance to full red-team simulations, this framework ensures you don't just learn to hack you learn to think, act, and report like a professional pentester trusted by enterprises.

More than a certification, zxCPPT is your transition from student to offensive security specialist capable of breaking, analyzing, and securing at scale.

## Learn

Courseware + Advanced Lab Access

1

## Execute

Exploit, Escalate & Persist

2

## Simulate

Red-Team Engagements + Real Scenarios

3

## Dominate

Capture the Flag + Reporting Challenges

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

# **zxCPPT: ZecurX Certified Professional Penetration Tester**

## **COURSE OVERVIEW**

**vl.0**

**zxCPPT**

# ZecurX Certified Professional Penetration Tester (zxCPPT)

## Course Overview

The ZecurX Certified Professional Penetration Tester (zxCPPT) is an advanced, hands-on red teaming program designed for cybersecurity learners who are ready to move beyond conventional ethical hacking. Built for real-world impact, this course trains participants in the skills required to exploit, infiltrate, and assess modern enterprise environments using both manual and AI-assisted techniques.

## Course Objectives

- Learn to exploit complex network, web, and cloud environments
- Simulate full-scale red team operations with real-world tools
- Work inside isolated cloud and SCADA-based lab infrastructures
- Build and automate custom recon and attack frameworks
- Apply skills in high-stakes, story-driven CTF simulations

## What You'll Achieve

- Ability to conduct advanced red team assessments from start to finish
- Proficiency in exploiting hardened enterprise environments (AD, Cloud, IoT, SCADA)
- Skill in developing custom payloads, shellcodes, and attack automation tools
- Expertise in drafting professional penetration test reports with risk-based scoring
- Recognition through leaderboard rankings and CTF badge achievements
- A verified ZecurX CPPT certification with public license validation

## Course Fee

**INR 30,000 (Including GST)**

Includes:

- Instructor-led training with 100% hands-on labs
- Official ZecurX CPPT Certification
- Themed CTF participation and badge recognition
- Placement and internship assistance



# ZecurX Certified Professional Penetration Tester (zxCPPT)

## Program Highlights

Access to an Exclusive Community: Delve into 25 advanced modules meticulously designed to sharpen your penetration testing capabilities.

Proctored Examination: Demonstrate your expertise through a structured, hands-on practical exam.

Guaranteed Paid Internship: Secure real-world exposure with assured, performance-based paid internship opportunities.

Bug Bounty Training: Master the art of vulnerability discovery and earn through real-world bug bounty platforms.

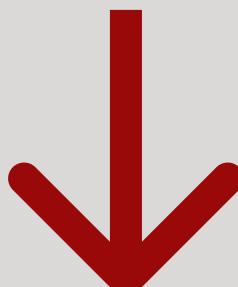
45 Hours of Expert Training: Participate in immersive, instructor-led sessions focused on advanced, enterprise-level cybersecurity techniques.

Access to ZX Lab & Professional Tools: Work directly with industry-standard tools and infrastructure within the ZecurX Lab environment.

Recognized Dual Certification: Obtain prestigious certification in both CPEH and CPPT, enhancing your credibility and professional standing.

## COURSE OUTLINE

Unlock your offensive edge with 20 hands-on modules of zxCPPT – built for real-world red teams.



# ZecurX Certified Professional Penetration Tester (zxCPPT)

## zxCPPT Skills Mapped To Cybersecurity Job Roles

zxCPPT SKILL AREA	MAPPED JOB ROLES
Advanced Reconnaissance & Threat Profiling	Threat Intelligence Analyst, Red Team Analyst
Live Network Exploitation (External & Internal)	Network Penetration Tester, Red Teamer
Active Directory (AD) Attacks & Privilege Escalation	AD Security Specialist, Enterprise Pentester
Web & Cloud Exploitation Techniques	Cloud Security Engineer, Web Application Pen Tester
Firewall/IDS/IPS Evasion & Bypassing	Advanced Penetration Tester, Offensive Security Consultant
IoT & SCADA Exploitation	IoT Security Analyst, ICS/SCADA Pentester
Binary Exploitation & Buffer Overflow	Exploit Developer, Vulnerability Researcher
Pivoting, Lateral Movement & Tunneling	Red Team Operator, APT (Advanced Persistent Threat) Analyst
Custom Script & Payload Development	Offensive Security Engineer, Ethical Malware Developer
Legal Documentation & Reporting	Security Consultant, Compliance Lead

## Career Acceleration After zxCPPT Certification

### Intermediate Roles:

- Vulnerability Analyst
- SOC Level 2 Analyst

### Advanced Roles:

- Red Teamer
- Exploit Developer



# ZecurX Certified Professional Penetration Tester (zxCPPT)

## Course Modules

Module 1	Offensive Security & Lab Infrastructure	Establish advanced lab environments for red team simulations and hands-on offensive operations.
Module 2	Engagement & Legal Warfare	Learn scoping, client agreements, chain of custody, and legal compliance for enterprise engagements.
Module 3	Advanced OSINT & Recon Frameworks	Use powerful frameworks and AI tools for passive and active reconnaissance.
Module 4	Phishing Frameworks & AI-Driven Social Engineering	Design custom phishing campaigns and AI-generated deception payloads.
Module 5	Perimeter Recon and External Threat Simulation	Simulate attacks against external enterprise assets and cloud-exposed surfaces.
Module 6	Internal Network Penetration & Pivoting	Compromise internal networks, escalate privileges, and move laterally.
Module 7	Active Directory & Credential Attacks	Attack AD environments using Kerberoasting, AS-REP Roasting, and golden tickets.
Module 8	Advanced Web App Exploitation	Exploit web application flaws including logic bypass, chained exploits, and zero-day attacks.
Module 9	Wireless Intrusions & Rogue AP Attacks	Execute rogue AP attacks, bypass enterprise Wi-Fi, and perform wireless MITM.
Module 10	Cloud Enumeration & Multi-Cloud Attacks	Enumerate and exploit services in AWS, Azure, and hybrid multi-cloud environments.

# ZecurX Certified Professional Penetration Tester (zxCPPT)

## Course Modules

Module 11	IoT/Embedded System Exploitation	Analyze and exploit firmware, hardware-level interfaces, and embedded services.
Module 12	SCADA & ICS Infrastructure Attacks	Simulate attacks on industrial control systems, sensors, and programmable logic controllers.
Module 13	Linux & Windows Post Exploitation	Extract data, maintain persistence, and disable defenses post-compromise.
Module 14	Binary Exploitation & Custom Payloads	Craft shellcode, bypass protections, and exploit compiled binaries.
Module 15	Exploit Development in Metasploit & Manual	Write, debug, and customize exploits using Metasploit and manual techniques.
Module 16	API Security and Mobile App Hacking	Penetrate RESTful APIs and secure mobile applications using dynamic analysis.
Module 17	Real-World Threat Simulations (Red Team Ops)	Execute full-scope enterprise attacks with stealth, C2s, and real-time adversary emulation.
Module 18	AI-Powered Threats & Offensive AI	Use machine learning to automate exploits, obfuscate payloads, and evade detection.
Module 19	Report Writing, Chain of Custody & Client Handoff	Deliver structured technical reports, ensure legal defensibility, and conduct handoff meetings.
Module 20	Final Capstone: Black Box Assessment Lab	Execute an end-to-end black-box assessment in a time-bound, score-based real-world lab.

# Clientele & Collaboration

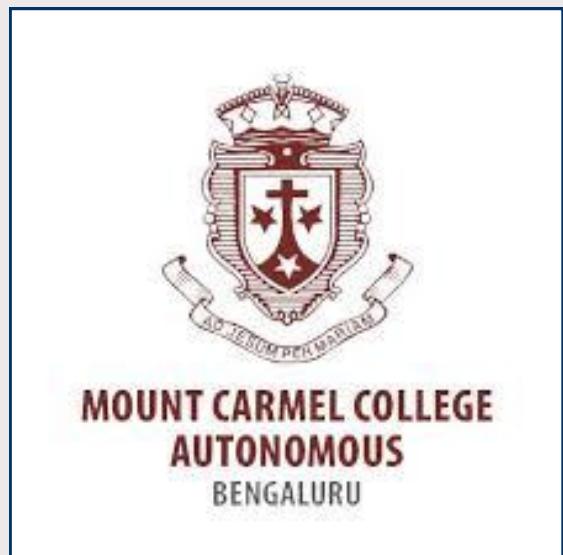
We have partnered with 12+ academic institutions and several private organizations, delivering:

- **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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