

*Ignite the Flame of Education*

## **Ethical Hacker & Cybersecurity Specialist Program**

**Engage in Ethical Hacking & Cyber security  
Mastery**

**Duration: 4 Months | Mode: Online | Level: Beginner to Advanced**  
**Powered by [CodeEmy!](#)**

 REGISTER NOW



## Scope of **Cyber Security & Ethical Hacking**



**20-25 million**  
jobs by 2025



**\$200 billion**  
industry in India by 2025



**12000 +**  
Indian businesses are  
actively present on LinkedIn



**75% CFOs**  
are set to spend more on  
Cyber Security

# Here is all the **Career Fields** you can excel at

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**Ethical Hacker**

**Penetration Tester**

**Cybersecurity Analyst**

**(SOC) Analyst**

**Network Security  
Engineer**

**Digital Forensics  
Expert**

**Cybersecurity  
Consultant**

**IT Security Admin**

**Incident Responder**

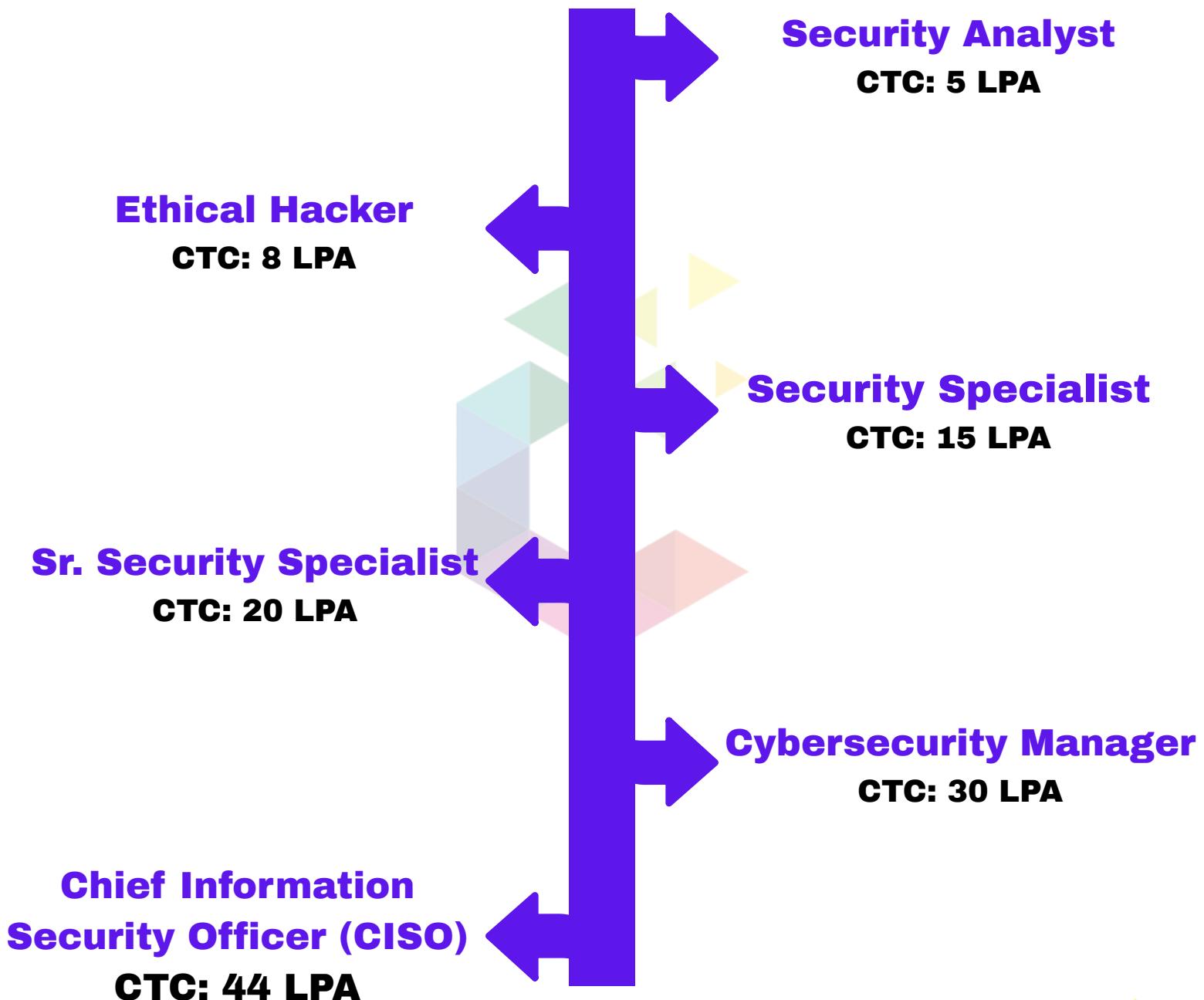
**Security  
Consultantentist**

# **CAREERS**



# Here is how your **Career Trajectory** will look like

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# Why **CodeEmy** is Unique ?

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Category	CodeEmy	UpGrad	SimpliLearn	Edureka	IIDE
Live Classes	✓	✓	✓	✓	✓
Placement Assistance	✓	✓	✗	✗	✓
Interview Training	✓	✓	✗	✗	✓
LinkedIn Profile & Resume Building	✓	✗	✗	✗	✗
Earn While your Learn	✓	✗	✗	✗	✗
Freelancing	✓	✗	✗	✗	✗
Campus Leader board across the college	✓	✓	✓	✗	✗
Lifetime Access to content	✓	✗	✗	✓	✓
Offline Project Fest (Every 3 Month once)	✓	✗	✗	✗	✗
Course Duration	3 - 4 Months	7-11 Months	5 Months	5 Weeks	4-5 Months
Price	₹15,000	₹ 1,05,000	₹ 1,00,000	₹ 20,000	₹ 72,000

△ **Disclaimer:**

The names of other companies mentioned here are used solely for comparison purposes to highlight the unique features of our offerings. We do not intend to misuse, defame, or misrepresent any organization in any way. There is no affiliation or endorsement implied. Our intent is purely informational and respectful.

# UNIQUENESS

### Week 1

- Basics of Cybersecurity & Ethical Hacking
- Types of Cyber Threats & Attacks
- Understanding CIA Triad (Confidentiality, Integrity, Availability)
- **Project:** Research Report on Recent Cyber Attacks

### Week 2

- OSI & TCP/IP Models
- IP Addressing & Subnetting
- Network Devices & Protocols (DNS, HTTP, FTP)
- **Project:** Analyze Network Traffic using Wireshark

### Week 3

- Linux Commands for Security
- File Permissions & User Management
- Windows Security Basics
- **Project:** Configure a Secure Linux Server

### Week 4

- Information Gathering Techniques
- WHOIS Lookup, DNS Enumeration
- Google Dorking, Social Engineering Basics
- **Project:** Perform Recon on a Target Website (Legally)



## Week 5

- Network Scanning with Nmap
- Port Scanning & Banner Grabbing
- Vulnerability Scanning using Nessus/OpenVAS
- **Project:** Network Scanning Lab Exercise

## Week 6

- Password Cracking Techniques (Brute Force, Dictionary)
- Privilege Escalation Methods
- Keyloggers & Backdoors
- Mini Project: Crack Password Hashes in a Lab Environment

## Week 7

- Types of Malware (Viruses, Worms, Ransomware)
- Trojan Horse & RAT (Remote Access Tools)
- Anti-Malware Techniques
- **Project:** Analyze Malware Behavior in Sandbox

## Week 8

- OWASP Top 10 Vulnerabilities
- SQL Injection, XSS, CSRF Attacks
- Broken Authentication & Session Hijacking
- **Project:** Perform SQL Injection on Test App



## Week 9

- Wireless Encryption (WEP, WPA, WPA2)
- Cracking Wi-Fi Passwords
- Rogue Access Points & Evil Twin Attacks
- **Project:** Secure a Wireless Network

## Week 10

- Phishing Attacks & Prevention
- Email Spoofing & Social Engineering Techniques
- Building Awareness Campaigns
- **Project:** Create a Phishing Simulation (Legal Lab)

## Week 11

- Steps in Incident Response (Preparation, Detection, Containment)
- Basics of Digital Forensics
- Evidence Collection & Chain of Custody
- Mini Project: Investigate a Security Breach Scenario

## Week 12

### Major Project Ideas:

- Penetration Testing Report for a Web App
- Vulnerability Assessment for a Network
- Security Audit for a Small Business
- Resume Building & Certification Guidance
- Interview Preparation & Job Assistance



## Hands - On Projects

### Mini Projects (Beginner to Intermediate Level)

#### 1. Network Traffic Analysis

- **Skills Used:** Wireshark, TCP/IP, Packet Analysis
- **Goal:** Monitor and analyze live network traffic to identify suspicious activity.

#### 2. Vulnerability Scanning on a Test Network

- **Skills Used:** Nmap, Nessus/OpenVAS
- **Goal:** Perform vulnerability scanning and prepare a security report for a test environment.

#### 3. Password Cracking Lab

- **Skills Used:** Kali Linux, John the Ripper, Hydra
- **Goal:** Crack weak passwords using brute force and dictionary attacks in a controlled lab.

### Major Projects (Advanced Level)

#### 1. Penetration Testing for a Web Application

- **Skills Used:** OWASP Top 10, Burp Suite, SQL Injection, XSS
- **Goal:** Conduct a penetration test on a dummy web app and create a security assessment report.

#### 2. Wireless Network Security Audit

- **Skills Used:** Aircrack-ng, Wireshark, WPA/WPA2 Security
- **Goal:** Audit a wireless network for vulnerabilities and secure it against unauthorized access.

#### 3. Incident Response & Forensic Investigation

- **Skills Used:** Digital Forensics Tools, Log Analysis, Chain of Custody
- **Goal:** Simulate a security breach, investigate logs, collect evidence, and prepare an incident report.



# Tools

## You will learn

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# Showcase

## your learning journey

### Certificate of Completion from CODEEMY



### Certificate of Internship from CODEEMY



### Approved by:



अखिल भारतीय तकनीकी शिक्षा परिषद्  
All India Council for Technical Education



### Contact Us

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