



Offered Programs



TRAINING Offline / Online

- 1. Any Graduate
- 2. By Realtime Practitioners
- 3. Realtime Scenario Projects
- 4. LMS Access for 6 Months
- 5. Resume Preparation
- 6. Doubts Clarification
- 7. 1 Mock Interview
 8. Interview Questions
- 9. Placement Referral Support
- 10. Course Completion Certificate

Price - 40,000



(JOIP) Intensive

- 1. Full Day Training
- 2. LMS Access for 8 Months
- 3. Soft Skills & Aptitude Classes
- 4. Monthly Placement Screening Tests
- 5. Assignments / Mock Tests
- 6. Interview Readiness Sessions
- 7. Mega Drive Selection Mandatory
 For Placements
- 8. Placement Assistance for 12months
- 9. Realtime Scenario Projects
- 10. By Realtime Practitioners
- 11. weekly 1 mock interview

Price - 50,000



(JOIP) Intensive & Internship

- 1. Internship @IT Company-Ramana Soft
- 2. By Realtime Practitioners
- 3. No Mega Drive Selection
- 4. 3Hrs.- Internship/3Hrs.-Training
- 5. Interview Questions & Readiness Sessions
- 6. Monthly Placement Screening Test
- 7. Personalised Assistance for Complex Tasks
- 8. 6 8 Hrs Daily
- 9. LMS Access Upto 1Year
- 10. 100% Placement Assistance -Until you're Hired
- 11. Internship Completion Certificate-6
 Months from Ramana Soft or Client
- 12. Realtime Scenario Projects
- 13. Soft Skills & Aptitude Classes

Price - 1lakh



Introduction to Cybersecurity

- ▶ The evolution of Cybersecurity
- ► Cybersecurity & situational awareness
- ► The Cybersecurity skills gap
- Difference between
 Information Security & Cybersecurity
- Cybersecurity objectives
- ► Cybersecurity Roles



Understanding Devices and Infrastructure

- ► Infrastructure Terminology
- ▶ Designing with Security in Mind
- ▶ Network Topology
- ▶ OSI Layers & TCP/IP Model
- ▶ IPv4 & Ipv6
- ▶ Ports & protocols
- Port numbers
- Firewalls
- VPNs and VPN Concentrators
- ► Intrusion Detection Systems
- ▶ Router
- ▶ Switch
- ► Proxy
- ▶ Load Balancer
- Access Point
- Network Access Control (NAC)
- Mail Gateway
- ▶ Bridge





Ethical Hacking Content

- ► Introduction to CyberSecurity
- ► Introduction to Ethical hacking
- ► Computer & Networking Basics
- Lab setup for Virtual Machines
- ► Foot Print/Information Gathering
- Scanning
- Vulnerability Analysis
- ➤ Sniffing & Man-In-Middle
- System Hacking
- ► Metasploit Attacks.
- ▶ Malware Threats
- Phishing Attacks
- Social Engineering Attacks
- ▶ Hacking webserver & Web Applications
- ▶ SQL Injection
- ▶ Wireless Attacks
- ▶ Firewalls
- ▶ IDS/IPS
- ▶ Honeypots
- ▶ Cloud Computing
- IOT Hacking
- Cryptography
- Penetration Testing
- ▶ Identity Theft
- Security Compliances
- Steganography
- Risk Management
- Mobile Hacking
- DOS/DDOS Attacks
- Proxies & VPn's
- ▶ Computer Forensic
- OSIntframework
- ► Information

 Gathering with Maltego Tool
- DNS Spoofing
- ▶ MAC Spoofing
- Web Application with Nessus Vulnerability Scanner
- Kon Boot for password Breaking
- ▶ Countermeasures for Local Systems

Bugbounty

- ▶ Introduction to Bug Bounty
- ▶ Basic Terminology on Bug Bounty
- Information Gathering
- ▶ Lab setup for Bug Bounty
- ▶ Installation of Burp Suite Tool
- ▶ Bug Bounty Platforms
- ► Report Writing for Bugs
- Vulnerability Scanner Tools
- Web Application Vulnerabilities
- **▶** Cross Site Scripting
- ► Host Header Injection
- ▶ URL Redirection Attack
- ▶ Parameter Tampering
- ► File Upload Vulnerability
- **▶** SQL Injection
- **▶** Bypass Authentication
- Sensitive Information Disclosure Vulnerability
- ► CSRF Attack Vulnerability
- Word Press Sensitive information disclosure
- XML Vulnerability in Word Press Vulnerability
- ▶ Missing SPF Records vulnerability
- ▶ OTP Bypass Technique Vulnerability
- ► IDOR Vulnerability
- ▶ No rate Limit Vulnerability
- Session Hijacking Vulnerability
- ▶ Long Password Attack Vulnerability



Security Operations Center (SOC)

- ▶ SOC Overview
- ▶ SOC Team Structure
- ► Tier 1 Responsibilities
- ▶ Tier 2 Responsibilities
- ▶ Tier 3 Responsibilities
- ▶ SOC Workflow and Escalation Path
- ▶ Alert Lifecycle Stages
- ► Incident Response Phases
- Types of Alerts Handled in SOC
- ▶ Daily SOC Monitoring Activities
- ▶ KPIs and Metrics for SOC
- ► Log Collection Strategy
- ► Log Parsing and Normalization
- ▶ Key SOC Log Sources
- ▶ Firewall Logs
- ► IDS/IPS Logs
- ▶ DNS Logs
- ▶ Endpoint Logs (Sysmon/EDR)
- Active Directory Logs
- ► Cloud Logs (CloudTrail, Azure Activity)
- Use Case Design in SIEM
- Rule Writing SPL (Splunk), AQL (Qradar)
- MITRE ATT\&CK Mapping to Alerts
- Threat Hunting Basics
- ▶ Alert Enrichment Techniques
- ► Alert Suppression & False Positive Handling
- ▶ Ticketing Systems (ServiceNow, JIRA) Integration
- Shift Handover Protocols

SIEM and EDR Focus

- ▶ Introduction to SIEM
- Overview of Splunk Architecture
- Splunk Ingestion and Indexing
- Writing SPL Queries
- Splunk Dashboards and Alerts
- QRadar Architecture and Flow Collection
- QRadar Rule Creation using CRE

- ► AQL Querying in Qradar
- ▶ Introduction to EDR
- ► SentinelOne Architecture
- SentinelOne Agent Capabilities
- ▶ Remote Response Actions (Kill, Quarantine, Rollback)

Malware Analysis

- ► Introduction to Malware Analysis
- Malware Categories
 - a. Virus
 - b. Worm
 - c. Trojan
 - d. Ransomware
 - e. Spyware
 - f. Rootkit
 - g. Fileless Malware
- ► Malware Behavior and Infection Chain
- ► Static Analysis Fundamentals
- ► File Header and Metadata Check
- ► String Extraction (strings, FLOSS)
- ▶ PE Header Inspection
- ▶ Hashing (MD5, SHA256) and Use Cases
- ▶ Dynamic Analysis Overview
- Sandbox Analysis (Any.run, Cuckoo)
- ► Tools for Monitoring Behavior
 - a. ProcMon
 - b. RegShot
 - c. Wireshark
 - d. TCPView
- ► Reverse Engineering Introduction
- Disassemblers (Ghidra, IDA Free)
- Debuggers (x64dbg, OllyDbg)
- Packers and Obfuscation
- ▶ IOC Extraction Process
- ▶ Types of IOCs
- ▶ File Hashes
- ▶ Registry Keys
- ▶ IPs and Domains
- ▶ Filenames



Email Security

- Overview of Email-Based Threats
- ► Anatomy of a Phishing Email
- Spear Phishing vs Generic Phishing
- Business Email Compromise (BEC)
- Malware Delivery via Email
- Spoofing and Lookalike Domains
- **▶** Email Header Components
- **▶** SPF Record Validation
- DKIM Signature Verification
- **▶** DMARC Policy Enforcement
- ► Email Flow and Received Headers
- ► Tools for Email Security
 - a. Microsoft Defender for O365
 - b. Cisco ESA
 - c. Proofpoint
 - d. Mimecast
- Email Sandbox Solutions
- ▶ SOC Response to Phishing
- ▶ IOC Search in Mailboxes
- Quarantining and Purging Emails
- User Awareness and Reporting Channels

Threat Intelligence

- ▶ Threat Intelligence Fundamentals
- ▶ Intelligence Lifecycle Stages
- Strategic vs Tactical vs
 Operational vs Technical TI
- ▶ IOC Formats (IP, Hash, URL, Domain)
- TI Sources and Feeds
 - a. VirusTotal
 - b. AlienVault OTX
 - c. Recorded Future
 - d. Shodan
 - e. URLScan.io
- ▶ MITRE ATT&CK Overview
- **▶ IOC Enrichment in SIEM**

Digital Forensics (Basic)

- ► Introduction to Digital Forensics
- ► Forensics in Incident Response
- **▶** Evidence Identification
- ▶ Disk Imaging with FTK Imager
- ► File Recovery and Analysis
- Windows Registry Artifact Locations
- ▶ Browser History and Cache Inspection
- Event Log Collection
- ▶ Timeline Analysis Basics
- Memory Analysis using Volatility
- ► Chain of Custody Requirements
- ▶ Legal Considerations for Evidence
- Role of Forensics in Root Cause Analysis

| Cloud Security

- ► Cloud Security Fundamentals
- Shared Responsibility Model
- ▶ Cloud Infrastructure Threats
- Misconfigured Storage Buckets (e.g., S3)
- ▶ Cloud Resource Exploitation
- Unmonitored API Calls and Access Keys
- Credential Theft from Repositories
- Cloud Identity Attacks
- Lateral Movement in Cloud Environments
- ► Lack of Visibility and Logging

Mobile Security – Threats Only

- ▶ Cloud Security Fundamentals
- ► Shared Responsibility Model
- Cloud Infrastructure Threats
- Misconfigured Storage Buckets (e.g., S3)
- **▶** Cloud Resource Exploitation
- Unmonitored API Calls and Access Keys
- Credential Theft from Repositories
- ▶ Cloud Identity Attacks
- Lateral Movement in Cloud Environments
- Lack of Visibility and Logging



AI in Cybersecurity

- ▶ Introduction to AI in Cybersecurity
- ▶ What is Artificial Intelligence (AI) & Machine Learning (ML)
- ▶ Difference between AI, ML, and Deep Learning
- ▶ Why AI matters in modern cybersecurity
- Generating policy templates using LLMs
- NLP-based review for policy clarity & compliance alignment
- ▶ OneTrust AI Policy automation & compliance tracking
- Open-source AI risk tools: RiskSense, OpenGRC

Governance & Information Security Frameworks

- Overview of Governance in Cybersecurity
- Role of governance in InfoSec
- Key governance principles and policies
- Information Security Management Systems (ISMS)
- Purpose and structure of ISMS
- ▶ PDCA (Plan-Do-Check-Act) cycle
- Major Cybersecurity Frameworks
- ► ISO 27001/27002 Overview
- NIST Cybersecurity Framework (CSF)
- CIS Controls
- COBIT for Information Security Governance
- Security Policies & Standards
- Policy hierarchy (Policies → Standards → Procedures → Guidelines)
- Writing effective security policies
- Roles & Responsibilities in GRC
- Board, CISO, risk managers, compliance officers
- RACI matrix in security governance





Internship Topics

Penetration Testing Internships

- Hands-on testing of networks, web applications, APIs
- Working with Metasploit, Burp Suite, Nmap, and Kali Linux
- Companies offering internships: Security firms, ethical hacking teams, and bug bounty programs

Security Operations Center (SOC) Internships

- ► Real-time security monitoring using SIEM tools (Splunk, QRadar, Devo, Elastic)
- ▶ Log analysis, threat detection, and incident escalation
- Exposure to MITRE ATT&CK Framework and cyber defense strategies

Malware & Phishing Email Analysis Internships

- Analyzing email headers & identifying phishing attempts
- Reverse engineering malware and working in sandbox environments
- Exposure to tools like Virus Total, Any. Run, Hybrid Analysis

Threat Intelligence & Threat Hunting Internships

- ► Investigating Indicators of Compromise (IoCs)
- Using Threat Intelligence Platforms (TIPs) such as MISP and OpenCTI
- Monitoring cybercriminal activities on the dark web

Recommended Certifications for Entr -Level Roles

- CompTIA Security+ (Foundational security knowledge)
- Certified SOC Analyst (CSA) (For SOC-related roles)
- Certified Ethical Hacker (CEH) (For penetration testing roles)
- ► GIAC Security Essentials (GSEC) (General cyber security skills)
- Cyber Threat Intelligence Analyst (CTIA) (For threat intelligence roles)





Career Opportunities after this Course

- ► SOC Analyst (L1/L2)
- ► Threat Intelligence Analyst
- Incident Responder
- Cyber security Analyst
- ► SIEM Engineer
- SOC Analyst (Tier 1, Tier 2, Tier 3)
- ► Threat Hunter
- Security Operations Engineer
- ► Incident Responder
- Cyber Threat Intelligence Analyst
- Network Security Engineer
- ► Firewall & Perimeter Security Administrator
- SOC Analyst (Network Security Focus)
- Threat Detection Engineer
- Cloud Network Security Engineer
- ► Penetration Tester (Web, Network, Wireless, Cloud)
- Red Team Operator / Adversary Emulation Specialist
- Bug Bounty Hunter & Security Researcher
- ▶ Offensive Security Consultant
- Exploit Developer & Malware Analyst
- Career Opportunities after this Course
- Cloud Security Engineer
- Cloud Security Architect
- DevSecOps Engineer
- Container Security Specialist
- ► Kubernetes Security Engineer
- Cloud Compliance & Risk Analyst





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