

Certified Cyber Security Professional Program

Practical • Job-Oriented • Video-Based LMS Training

4.9 Rating | 12,400+ Students Enrolled | Updated May 2026

| | | | | | |
|--------------------|----------------------------|---------------------|-----------------------|----------------------|--------------------|
| ■ 30 Video Lessons | ■■ 60+ Hours Total Content | ■ 50+ Hands-on Labs | ■ 20+ Section Quizzes | ■ 10+ Certifications | ■■ Lifetime Access |
|--------------------|----------------------------|---------------------|-----------------------|----------------------|--------------------|

■ WHAT YOU WILL LEARN

| | |
|---|--|
| ■ Perform Ethical Hacking & Penetration Testing | ■ Detect & Respond to incidents like a SOC Analyst |
| ■ Secure Web Applications — OWASP Top 10 | ■ Master 50+ tools: Metasploit, Burp Suite, Splunk |
| ■ Configure Firewalls, IDS/IPS & SIEM systems | ■ Perform Cloud Security assessment on AWS & Azure |
| ■ Analyse Malware — Static & Dynamic techniques | ■ Crack CEH, Security+, eJPT certifications |
| ■ Implement ISO 27001, GDPR, PCI-DSS compliance | ■ Get hired — resume, interviews & portfolio |

■ THIS COURSE INCLUDES

| | |
|--|---|
| ■ 30 in-depth video lessons (HD, 1–3 hrs each) | ■ 30+ downloadable PDF cheat sheets & resources |
| ■ 50+ hands-on lab exercises inside each video | ■ 20+ quizzes after each section |
| ■■ Access on Mobile, Tablet & Desktop | ■■ Full lifetime access — watch anytime |
| ■ ByteLearned Certificate of Completion | ■■■■ Live doubt-clearing sessions |
| ■ Tool kits, scripts & lab files | ■ Private student community access |

■ COURSE CONTENT — 30 Video Lessons • 60+ Hours • 20 Sections

■ PHASE 1 — FOUNDATION

■ Video
1

Section 1: Introduction to Cyber Security

■ 2 hrs 30
min

- What is Cyber Security — CIA Triad (Confidentiality, Integrity, Availability)
- Types of Cyber Threats: Malware, Phishing, Ransomware, Social Engineering
- Cyber Security Career Paths and Job Roles in 2026
- Overview of NIST, ISO 27001 and CIS Controls Frameworks
- Dark Web vs Deep Web vs Surface Web Explained
- Setting Up Your Learning Environment (VirtualBox + Kali Linux)
- **Quiz — Cyber Security Basics — 15 Questions**
- *Download: Cyber Security Career Roadmap 2026.pdf*

■ Video
2

Section 2: Networking Fundamentals — Part 1

■ 2 hrs 45
min

- OSI Model — All 7 Layers Explained with Real-World Examples
- TCP/IP Protocol Suite — Deep Dive
- IP Addressing, Subnetting & CIDR Notation (with practice problems)
- DNS, DHCP, HTTP/HTTPS, FTP, SSH, SMTP — Security Implications
- Firewalls, Routers, Switches, IDS/IPS — Roles in Security
- VLANs, NAT and VPN Concepts
- *Download: Networking Protocols Cheat Sheet.pdf*

■ Video
3

Section 2: Networking Fundamentals — Part 2 (Labs)

■ 2 hrs 30
min

- Lab: Installing & Configuring Wireshark for Packet Capture
- Lab: Capturing & Analysing HTTP, DNS, ARP Traffic
- Lab: Nmap — All Scan Types Explained with Practicals
- Lab: Network Topology Setup in GNS3 / Packet Tracer
- Reading and Interpreting Network Diagrams
- **Quiz — Networking for Security — 20 Questions**
- *Download: Nmap Cheat Sheet.pdf*
- *Download: Wireshark Filter Guide.pdf*

- Linux File System, Directory Structure & Navigation
- Users, Groups, File Permissions — chmod, chown, sudo
- Essential Linux Commands Every Security Pro Must Know
- Bash Scripting for Security Automation — Variables, Loops, Functions
- Log Analysis & System Monitoring: journalctl, syslog, auth.log
- Lab: Setting Up Kali Linux / Parrot OS in VirtualBox
- Lab: SSH Hardening — Disable root login, key-based auth, UFW firewall
- Lab: Writing a Port Scanner Script in Bash from Scratch
- **Quiz — Linux Security — 15 Questions**
- *Download: Linux Commands Cheat Sheet.pdf*
- *Download: Bash Scripting Starter Kit.pdf*

- Windows Security Architecture — LSA, SAM, Security Subsystem
- Active Directory Structure — Domains, OUs, Users, Groups, Trusts
- Group Policy Objects (GPOs) — Setup & Security Hardening Use Cases
- Windows Event Logs — Key Event IDs every analyst must know
- Common Windows Attack Vectors and Defences
- PowerShell for Security — Enumeration, Auditing & Automation
- Lab: Active Directory Setup in Windows Server 2022
- Lab: Analysing Windows Event Logs for Suspicious Activity
- **Quiz — Windows & Active Directory — 15 Questions**
- *Download: Windows Event IDs Cheat Sheet.pdf*
- *Download: PowerShell Security Commands.pdf*

■ PHASE 2 — OFFENSIVE SECURITY / ETHICAL HACKING

■ Video
6

Section 5: Ethical Hacking Methodology & Lab Setup

■ 2 hrs

- What is Ethical Hacking — Legal Aspects, Bug Bounty, Scope
- Penetration Testing Phases: Recon → Scan → Exploit → Report
- Lab: Full Hacking Lab Setup — Kali + Metasploitable + DVWA
- How to Write a Professional Penetration Testing Report
- **Quiz — Ethical Hacking Basics — 10 Questions**
- *Download: Pentest Report Template.pdf*

■ Video
7

Section 6: Reconnaissance & OSINT

■ 2 hrs 30
min

- Passive Recon — OSINT Methodology & Frameworks
- Google Dorking — Advanced Search Operators for Recon
- Shodan — Finding Exposed Devices & Services
- DNS Enumeration, WHOIS Lookup & Subdomain Discovery
- Lab: theHarvester — Email & Domain Recon in Practice
- Lab: Maltego — Visualising the Attack Surface
- Lab: Recon-ng & SpiderFoot — Automated OSINT Workflow
- Active Recon with Nmap — Advanced Scan Techniques
- **Quiz — Recon & OSINT — 15 Questions**
- *Download: OSINT Toolkit & Resources List.pdf*

■ Video
8

Section 7: Vulnerability Assessment — Scanning & Analysis

■ 2 hrs 30
min

- Vulnerability Scanning with Nessus — Full Walkthrough
- OpenVAS — Installation, Configuration & Scanning
- CVE Database & CVSS Scoring — Understanding Severity Ratings
- Analysing Scan Reports & Prioritising Vulnerabilities
- Lab: Scanning Metasploitable with Nessus & OpenVAS
- Exploit-DB — Finding Public Exploits for Vulnerabilities
- *Download: Vulnerability Management Process.pdf*

Video
9

Section 7: Exploitation & Post-Exploitation with Metasploit

3 hrs

- Metasploit Framework Architecture — Modules, Payloads, Encoders
- Lab: Exploiting Metasploitable — Multiple Attack Vectors
- Manual Exploitation Techniques — Without Metasploit
- Buffer Overflow Basics — Stack-Based Overflow Explained
- Privilege Escalation — Linux (SUID, Cron, Sudo) Techniques
- Privilege Escalation — Windows (Token Impersonation, AlwaysInstallElevated)
- Post-Exploitation — Persistence, Pivoting & Data Exfiltration
- Lab: Full Pentest on Metasploitable + CTF Challenge
- Quiz — Exploitation Techniques — 20 Questions**
- Download: *Metasploit Cheat Sheet.pdf*
- Download: *PrivEsc Checklist Linux+Windows.pdf*

Video
10

Section 8: Web Application Security — OWASP Top 10 (Part 1)

3 hrs

- OWASP Top 10 — 2023 Edition Overview & Real-World Examples
- SQL Injection — Detection, Exploitation & Prevention (Manual + SQLMap)
- Cross-Site Scripting (XSS) — Stored, Reflected & DOM-Based
- Broken Authentication & Session Management Attacks
- IDOR (Insecure Direct Object Reference) — Finding & Exploiting
- Lab: SQL Injection & XSS on DVWA — Full Practical
- Download: *OWASP Top 10 Quick Reference.pdf*

Video
11

Section 8: Web Application Security — Burp Suite & API Testing (Part 2)

3 hrs

- CSRF, SSRF, XXE & Insecure Deserialization Explained
- Security Misconfigurations & Sensitive Data Exposure
- Burp Suite Complete Guide — Intercept, Repeater, Intruder, Scanner
- Lab: Full Web Application Pentest Workflow with Burp Suite
- API Security Testing — REST & GraphQL Vulnerabilities
- Lab: API Pentesting Practical on Vulnerable API
- Bug Bounty Hunting — Methodology & Top Platforms (HackerOne, Bugcrowd)
- Quiz — Web App Security — 20 Questions**
- Download: *Burp Suite Shortcuts.pdf*
- Download: *Bug Bounty Hunting Checklist.pdf*

■ PHASE 3 — DEFENSIVE SECURITY

■ Video
12

Section 9: Network Security & Firewall Management

■ 2 hrs 30
min

- Firewall Types — Stateful, Stateless, Next-Gen Firewalls (NGFW)
- Lab: pfSense Firewall — Complete Setup, Rules & Configuration
- IDS/IPS — Snort Rule Writing & Alert Configuration
- Lab: Suricata IDS Setup, Traffic Analysis & Alert Tuning
- Network Segmentation, DMZ Architecture & Zero Trust Concepts
- VPN Setup — OpenVPN & WireGuard Practical Configuration

■ **Quiz — Network Security — 15 Questions**

■ *Download: pfSense Config Guide.pdf*

■ *Download: Snort Rules Cheat Sheet.pdf*

■ Video
13

Section 10: SIEM & Security Monitoring with Splunk

■ 3 hrs

- What is SIEM? — Architecture, Use Cases & How It Fits in a SOC
- Lab: Splunk Installation, Configuration & Log Ingestion
- Splunk Search Processing Language (SPL) — Complete Guide
- Building Dashboards, Alerts & Correlation Rules in Splunk
- Writing SIEM Use Cases for Real-World Threats
- Threat Hunting Methodology Using Splunk
- Lab: ELK Stack (Elasticsearch, Logstash, Kibana) Setup & Use
- Microsoft Sentinel Overview — Cloud-Native SIEM

■ **Quiz — SIEM & Monitoring — 15 Questions**

■ *Download: Splunk SPL Cheat Sheet.pdf*

■ *Download: ELK Stack Setup Guide.pdf*

- Incident Response Lifecycle — NIST SP 800-61 Framework
- Malware Analysis — Static Analysis (Strings, PE Headers, YARA Rules)
- Malware Analysis — Dynamic Analysis (Cuckoo Sandbox, ANY.RUN)
- Disk Forensics — Evidence Acquisition with FTK Imager
- Lab: Autopsy — Full Disk Investigation & Artefact Recovery
- Memory Forensics with Volatility — Process, Network & Registry Analysis
- Network Forensics — Packet-Level Investigation with Wireshark
- Writing Professional Incident Response Reports
- **Quiz — IR & Digital Forensics — 15 Questions**
- *Download: IR Playbook Template.pdf*
- *Download: Volatility Commands Cheat Sheet.pdf*

- EDR Solutions — CrowdStrike Falcon & SentinelOne Overview
- MITRE ATT&CK; Framework — Complete Practical Guide
- IOC (Indicators of Compromise) — Collection, Analysis & Sharing
- Threat Intelligence Platforms — VirusTotal & AlienVault OTX
- Email Security — Phishing Header Analysis in Depth
- SPF, DKIM & DMARC — Setup, Verification & Troubleshooting
- **Quiz — Threat Intelligence — 10 Questions**
- *Download: MITRE ATT&CK; Quick Reference.pdf*
- *Download: Phishing Analysis Checklist.pdf*

■ PHASE 4 — CLOUD, GRC & ADVANCED TOPICS

■ Video
16

Section 13: Cloud Security — AWS & Azure

■ 3 hrs

- Cloud Security Fundamentals & Shared Responsibility Model
- AWS IAM — Users, Roles, Policies & Permission Boundaries Best Practices
- AWS Security Services — GuardDuty, CloudTrail, Security Hub, Macie
- Lab: AWS Security Assessment — Finding Misconfigurations
- Azure Security Center, Microsoft Defender & Sentinel Overview
- Container Security — Docker Hardening & Kubernetes Security
- Lab: Docker Security — Scanning Images & Hardening Containers
- S3 Bucket Security, Serverless Security & Secrets Management
- **Quiz — Cloud Security — 15 Questions**
- *Download: AWS Security Cheat Sheet.pdf*
- *Download: Docker Security Checklist.pdf*

■ Video
17

Section 14: Governance, Risk & Compliance (GRC)

■ 2 hrs

- Introduction to GRC — Why Compliance is a Career in Itself
- ISO 27001 — ISMS Implementation Step-by-Step Guide
- GDPR, India PDPB, PCI-DSS & HIPAA — Key Requirements
- Risk Assessment, Risk Register & Risk Treatment Planning
- Writing Security Policies, Procedures & Standards
- Security Audit Process — Planning, Execution & Reporting
- **Quiz — GRC & Compliance — 15 Questions**
- *Download: ISO 27001 Controls Summary.pdf*
- *Download: Risk Assessment Template.pdf*

■ Video
18

Section 15: Cryptography, PKI & Password Security

■ 2 hrs

- Symmetric Encryption — AES, DES, 3DES with Real Examples
- Asymmetric Encryption — RSA, ECC — How Public/Private Keys Work
- Hashing Algorithms — MD5, SHA-1, SHA-256 — Uses & Weaknesses
- SSL/TLS — How HTTPS Works Internally Step by Step
- PKI & Digital Certificates — CA, CSR, Certificate Chains
- Lab: Hashcat — Password Cracking (Dictionary, Brute Force, Rules)
- Lab: John the Ripper — Cracking Linux & Windows Password Hashes

■ **Quiz — Cryptography — 15 Questions**

- *Download: Cryptography Cheat Sheet.pdf*
- *Download: Hashcat Attack Modes Guide.pdf*

■ Video
19

Section 16: Malware Analysis & Reverse Engineering

■ 2 hrs 30
min

- Types of Malware — Viruses, Worms, Trojans, RATs, Ransomware, Rootkits
- Static Analysis — PE Headers, Strings, Imports & YARA Rule Writing
- Dynamic Analysis — ANY.RUN & Cuckoo Sandbox Walkthrough
- Introduction to Assembly Language for Reverse Engineering
- Lab: Ghidra — Reverse Engineering a Real Malware Sample
- Lab: IDA Free — Binary Analysis Practical
- Python Scripting for Security Automation — Practical Examples

■ **Quiz — Malware Analysis — 10 Questions**

- *Download: Malware Analysis Cheat Sheet.pdf*
- *Download: YARA Rules Starter Pack.pdf*

■ PHASE 5 — SPECIALISATION & CAREER PREPARATION

■ Video
20

Section 17: Advanced Penetration Testing

■ 3 hrs

- Advanced Metasploit — Custom Payloads, Encoding & AV Evasion
- Active Directory Attacks — Pass-the-Hash, Pass-the-Ticket
- Kerberoasting — Extraction & Cracking Service Account Hashes
- BloodHound — Mapping AD Attack Paths Visually
- Lab: Full Active Directory Attack Chain from Foothold to DA
- Red Team vs Blue Team — Exercises & Adversary Simulation
- C2 Frameworks — Cobalt Strike & Sliver Overview
- Physical Security & Social Engineering Attack Techniques
- **Quiz — Advanced Pentesting — 10 Questions**
- *Download: AD Attack Cheat Sheet.pdf*
- *Download: BloodHound Query Guide.pdf*

■ Video
21

Section 18: SOC Analyst Training — Tier 1 & Tier 2

■ 2 hrs 30
min

- SOC Structure — Tier 1, Tier 2, Tier 3 Roles & Responsibilities
- Alert Triage & Prioritisation — Real-World Workflow
- Lab: Handling a Real-World Phishing Incident End-to-End
- Lab: Ransomware Incident Simulation — Detection to Containment
- Playbook Creation & SOAR Automation — Splunk SOAR Overview
- Lab: TheHive — Incident & Case Management Platform
- Shift Handover, SOC Metrics & Daily Reporting
- **Quiz — SOC Operations — 15 Questions**
- *Download: SOC Analyst Playbook Template.pdf*
- *Download: Alert Triage Decision Tree.pdf*

■ Video
22

Section 19: Certification Preparation — Security+, CEH, eJPT

■ 2 hrs 30
min

- CompTIA Security+ (SY0-701) — Full Syllabus Review & Exam Tips
- CEH v12 — Key Domains, Exam Format & Strategy
- eJPT (eLearnSecurity Junior Pentester) — Complete Exam Walkthrough
- OSCP Path — How to Continue After This Course
- Google Cyber Security Certificate — Overview & Value
- Mock Exam — 60 Mixed Questions (Security+ Style)
- Exam Day Tips — Time Management & Eliminating Wrong Answers
- *Download: Security+ Study Guide.pdf*
- *Download: CEH Domain Summary.pdf*
- *Download: eJPT Tips & Tricks.pdf*

■ Video
23

Section 20: Career Development & Job Placement

■ 2 hrs

- Building a Cyber Security Resume That Gets Shortlisted
- Optimising Your LinkedIn Profile for Security Recruiters
- Building Your Portfolio — TryHackMe, HackTheBox & GitHub
- Top 50 Cyber Security Interview Q&A; — Technical + HR Rounds
- Freelancing in Cyber Security — Bug Bounty, Consulting & VAPT
- Salary Benchmarks — Freshers to Senior Roles in India & Globally
- Live Mock Interview Assignment — Submit for Feedback
- *Download: Resume Template.pdf*
- *Download: LinkedIn Optimisation Guide.pdf*
- *Download: Top 50 Interview Q&A.pdf;*

■ BONUS VIDEOS — Extra Skills & Deep Dives

■ Video
24

Section B1: Wireless Network Security

■ 1 hr 30
min

- WiFi Security Protocols — WEP, WPA, WPA2, WPA3
- Wireless Attacks — Evil Twin, Deauth, PMKID Attack
- Lab: Aircrack-ng — Cracking WPA2 Handshake in a Lab Setup
- Bluetooth & IoT Security Overview
- **Quiz — Wireless Security — 10 Questions**
- *Download: Wireless Attacks Cheat Sheet.pdf*

■ Video
25

Section B2: Social Engineering & Phishing Attacks

■ 1 hr 30
min

- Social Engineering Techniques — Pretexting, Baiting, Tailgating
- Phishing, Spear Phishing & Whaling — Real Examples
- Lab: GoPhish — Setting Up a Phishing Simulation Campaign
- Defending Against Social Engineering — Awareness Training
- *Download: Social Engineering Playbook.pdf*

■ Video
26

Section B3: Dark Web Monitoring & Threat Hunting

■ 1 hr 30
min

- How the Dark Web Works — Tor Network Explained
- Dark Web Monitoring Tools — Intelligence Gathering
- Proactive Threat Hunting — Hypothesis-Driven Methodology
- Lab: Threat Hunting using Splunk & ELK Stack
- *Download: Threat Hunting Playbook.pdf*

■ Video
27

Section B4: DevSecOps — Security in CI/CD Pipelines

■ 1 hr 30
min

- What is DevSecOps — Shifting Security Left
- SAST & DAST Tools — SonarQube, OWASP ZAP Integration
- Secrets Scanning — Detecting API Keys in Code Repos
- Lab: Adding Security Checks to a GitHub Actions Pipeline
- *Download: DevSecOps Checklist.pdf*

■ Video
28

Section B5: Zero Day Research & Responsible Disclosure

■ 1 hr

- What is a Zero Day Vulnerability — Discovery & Lifecycle
- CVE Process — How Vulnerabilities Get Assigned & Published
- Responsible Disclosure — How to Report Bugs Ethically
- Building a Bug Bounty Report that Gets Paid

■ Video
29

Section B6: Cyber Security for Small Businesses

■ 1 hr

- Most Common Cyber Attacks Targeting Small Businesses
- Essential Security Measures Every Business Needs
- Setting Up a Basic Security Stack on a Budget
- Employee Security Awareness Training Tips
- *Download: SMB Security Checklist.pdf*

■ Video
30

Section B7: Final Capstone Project & Graduation

■ 2 hrs

- Capstone Overview — Full Pentest + Defence Report on Lab Environment
- Step 1: Recon & Vulnerability Assessment on Target Network
- Step 2: Exploitation & Post-Exploitation
- Step 3: Incident Response & Forensics on the Compromised System
- Step 4: Writing Your Professional Final Report
- Certificate of Completion Awarded ■
- *Download: Capstone Project Guide.pdf*
- *Download: Final Report Template.pdf*

■ JOB ROLES & SALARY AFTER COMPLETION

| Job Role | Experience | Avg Salary (India) |
|-------------------------------------|----------------|--------------------|
| SOC Analyst Tier 1 / Tier 2 | Fresher – 1 yr | ■3.5 – 6 LPA |
| Penetration Tester / Ethical Hacker | 1 – 2 yrs | ■5 – 10 LPA |
| Security Engineer | 1 – 3 yrs | ■6 – 14 LPA |
| Cloud Security Engineer | 2 – 4 yrs | ■10 – 22 LPA |
| Incident Responder / DFIR Analyst | 2 – 4 yrs | ■8 – 18 LPA |
| GRC / Compliance Analyst | 1 – 3 yrs | ■5 – 12 LPA |
| Security Architect / Manager | 5+ yrs | ■22 – 45 LPA+ |

■■ 50+ TOOLS YOU WILL MASTER

| | | | | | |
|----------------|--------------|------------|-----------------|------------|----------------|
| Kali Linux | Metasploit | Nmap | Wireshark | Burp Suite | Nessus |
| OpenVAS | Splunk | ELK Stack | Snort | Suricata | pfSense |
| BloodHound | Mimikatz | Hashcat | John the Ripper | SQLMap | Nikto |
| Autopsy | Volatility | Ghidra | IDA Free | ANY.RUN | Shodan |
| Maltego | theHarvester | Recon-ng | OWASP ZAP | Docker | AWS Security |
| Azure Sentinel | CrowdStrike | VirusTotal | AlienVault OTX | GoPhish | Aircrack-ng |
| CyberChef | OpenSSL | TryHackMe | HackTheBox | TheHive | Cuckoo Sandbox |
| VirtualBox | VMware | PowerShell | Python | | |

■ bytelearned.online

■ info@bytelearned.online

■ 7396633051