

CYBERSECURITY BOOTCAMP

SUMMER CAMP COURSE



Starting on 21st
June 2025

Days
Sat and Sun

Timing
2:00 pm to to 4:00 pm

Duration:
10 Weeks

Course Features

- Taught by Industry Expert
- Real-World Case Studies
- Hands-on Labs and Practice
- Certificate of Completion
- Career-Focused: Perfect for IT, developers, and students

Who Should Join?

- Students in CS, IT, or Engineering
- IT Professionals or SysAdmins
- Developers curious about security
- Career switchers into Cybersecurity
- Anyone wanting to protect their digital life



TRAINER

Muhammad Noman Khalid

Senior Penetration Tester/Cyber Security Trainer
Senior Manager Information Security (VAPT Head)
Bank Islami Pakistan Ltd



TRAINER

Muhammad Wasi,

Senior Application Security Analyst
Bank Islami Pakistan Ltd

FEES RS 20,000

10% Early bird discount

COURSE OUTLINE



Section 1: Introduction to Cybersecurity & Career Path (Week 1)

Day 1 (Saturday)

- Course Introduction & Cybersecurity Fundamentals
- Cybersecurity Fundamentals: CIA Triad & Key Concepts
- Cybersecurity Career Paths & Certifications Overview

Day 2 (Sunday)

- Definition of Vulnerabilities, Threats, and Risks
- Basics of networking: TCP/IP, OSI model
- Common network protocols and their functions
- Basics of HTTP Methods, HTTP Status Code
- Basics of Programming Language and Linux Commands

Section 2: Vulnerability Assessment & Penetration Testing (VAPT) (Weeks 2-5)

Day 3 (Saturday - Week 2)

- Introduction to Vulnerability Assessment & Penetration Testing (Red Team)
- Penetration Testing Frameworks (NIST, MITRE ATT&CK)
- Rules of Engagement (RoE) & Legal Considerations
- Types of Pentesting (Black Box, White Box, Gray Box)

Day 4 (Sunday - Week 2)

- Lab Setup: Kali Linux & Pentesting Tools (Burp Suite, Nmap, Gobuster)
- Passive Reconnaissance Techniques
- Google Dorking, OSINT, Shodan, Whois, DNS Enumeration

Day 5 (Saturday - Week 3)

- Active Reconnaissance
- Nmap, Sublist3r, Amass, Content Discovery, Custom Bash Script
- Web Application Security Testing (OWASP Top 10 - Part 1)
- Hands-on: SQL Injection, XSS & CSRF Exploits

COURSE OUTLINE (CONTINUED)



Day 6 (Sunday – Week 3)

- Web Application Security Testing (OWASP Top 10 - Part 2)
- Hands-on: IDOR, SSRF, RCE, JWT Manipulation, OAuth Misconfigurations

Day 7 (Saturday – Week 4)

- Web Application Security Testing: Authentication Attacks (JWT, OAuth)
- Business Logic Flaws and API (IDOR, Race Conditions, Mass Assignment)

Day 8 (Sunday – Week 4)

- Bug Bounty Guides & Best Practices (HackerOne, Bugcrowd, Synack)
- Mobile Application Security (Frida, Objection, Drozer)
- Bypassing Security Controls
- Root Detection, SSL Pinning, Insecure Data Storage

Day 9 (Saturday – Week 5)

- Network Security Testing & Exploitation Techniques
- Scanning & Exploiting Vulnerabilities (SMB, RDP, FTP, SNMP)
- Post-Exploitation & Privilege Escalation (offsec, Hackthebox & Tryhackme)

Day 10 (Sunday – Week 5)

- Writing Pentest Reports & Creating Impactful Findings
- Best Practices for Secure Development & Hardening
- Penetration Testing Roadmap: Beginner to Advanced Path
- Certifications Breakdown: eJPT to OSCP to CRTP etc.

Section 3: Governance, Risk & Compliance (GRC) (Weeks 6-7)

Day 11 (Saturday – Week 6)

- Introduction to GRC (Governance, Risk & Compliance)
- Understanding Risk Management & Security Policies

COURSE OUTLINE (CONTINUED)



Day 12 (Sunday – Week 6)

- Overview of Security Standards: ISO 27001, NIST, PCI-DSS
- Practical Workshop: Risk Assessment & Compliance Checklist

Day 13 (Saturday – Week 7)

- IT Security Audits: Process & Best Practices
- Case Study: Audit Failures & Lessons Learned

Day 14 (Sunday – Week 7)

- Business Continuity & Disaster Recovery Planning
- Incident Handling & Crisis Management

Section 4: Security Operations Center (SOC) & SIEM (Weeks 8–9)

Day 15 (Saturday – Week 8)

- Introduction to SOC & Threat Intelligence
- Understanding SIEM & Log Analysis Basics

Day 16 (Sunday – Week 8)

- SIEM (IBM QRadar, Elastic etc.)
- Practical Log Analysis for Security Monitoring

Day 17 (Saturday – Week 9)

- Incident Response: Detection, Analysis, & Containment
- Investigating Cyber Attacks via SIEM Logs

Day 18 (Sunday – Week 10)

- Capstone Projects Presentation & Peer Review
- Resume Building for Cybersecurity Roles
- Interview Preparation & Job Portal Guidance
- Q/A with Cybersecurity Expert Panel