

Cyber Security Professional



Few Topics:

- Vulnerability Auditing
- Penetration Testing
- Wi-Fi Hacking
- IOT Device Hacking
- Phishing
- Whaling
- Dark web

COURSE CONTENT

Module 1 - Security Risk Assessment (Ethical Hacking) Introduction to Hacking

- What is Hacking
- What is Ethical Hacking
- What is Information Security
- What is Information Assurance
- CIA Triad
- Stages of Hacking Vulnerability Based Hacking Foot printing
- What is Foot printing
- Foot printing Objectives
- Foot printing Techniques Scanning
- What is Scanning
- What is Enumeration

- Scanning Methodology
- What is Vulnerability Auditing
- What is Penetration Testing
- Continuous Automated Red Teaming (CART)
- AI Fuzzing Hacking Web Applications
- Directory Traversal
- Website Defacement
- Code Injection
- SQL Injection
- XSS Cryptography
- Common Terminology
- Symmetric Key Encryption
- Asymmetric Key Encryption Password Hacking Attacks
- Password Cracking Attacks
- Bruteforce attack
- Dictionary attack
- Rainbow table attack Sniffers
- What is a sniffer
- Sniffing techniques
- ARP Poisoning
- Session Hijacking Phishing
- What is Phishing
- Spear Phishing
- Deep fake Phishing
- Whaling
- Pharming Wireless Hacking

- **What is a wireless network**
 - **Types of wireless networks**
 - **Wireless network attacks Malware**
 - **What is a Malware**
 - **Types of Malwares IoT Attacks**
 - **What is IoT**
 - **IoT communication methods**
 - **IoT Operating Systems**
 - **IoT Attacks Cloud Computing**
 - **What is Cloud Computing**
 - **Types of Cloud Computing**
 - **Types of Cloud Computing Services**
 - **Cloud Computing Attacks Blockchain Attacks**
 - **What is Blockchain**
 - **Blockchain Attacks Covering Tracks DoS**
 - **What is DoS**
 - **DoS attack techniques Anonymizers**
 - **What is an anonymizer**
 - **Proxy server**
 - **VPN server**
 - **TOR Browser Dark Web**
 - **What is Dark Web**
 - **Different Dark Web technologies Cyber Kill Chain**
- Securing the network MITRE ATT&CK Framework**
- Security Compliance**

Module 2: Proactive Defence and Countermeasures Introduction to Security

- Network Security Challenges
- Elements of Information Security
- Security, Functionality and Usability Triangle
- Zero Trust approach
- Castle Moat approach Firewall
- What is a Firewall
- Types of Firewall
- Designing network security with Firewall
- Secure Access Service Edge (SASE)
- NAT
- Security Policy
- Logs Management
- Application Security
- Content / Web Security
- Authentication Virtual Private Networks
- What is VPN
- Type of VPNs
- GRE
- IPSEC
- SSL Intrusion Prevention Systems
- What is an Intrusion Detection System

- What is an Intrusion Prevention System Unified Threat Management
- What is UTM
- How UTM is different from Firewall
- Advantages of UTM High Availability Virtual / Cloud Devices Cisco ASA Storm shield UTM

Module 3: SIEM & Incident Response SIEM

- What is SIEM
- Functions of SIEM
- SIEM architecture Incident Management
- Incident response policy ● Incident Handling

