GradTech

Full stack Cyber security

Foundational Track

Module 1: Introduction to course

- Networking Topology & Networks types
- TCP/IP Models and OSI Layers
- Routing, Switching & ACL
- Static routing, Dynamic routing and VLAN

Module 2: Operating System and Security

- Virtualisation OS & Resource
- Management Window basics
- & Linux basic

Module 3: Information Security

- Basic of Internet and Web
- Applications HTTP Protocol, HTTPS -
- TLS/SSL Cookies, Sessions,Tokens C
- Email Encryption & Disk Encryption
- Cryptanalysis tracking,Privacy & Law
- Public Key Infrastructure (PKI)

Module 4: Cloud Security

- Cloud Computing Concepts
- Cloud Building Blocks
- AWS Cloud Tour
- Cloud Architecture Security
- AWS Well Architected Framework
- AWS Well Architected Framework: Security Pillar
- Cloud Data Security
- Entry Points on AWS to Maintain Security
- Cloud Application Security
- Cloud Computing Security Issues
- Zero Trust Security Architecture

Module 5: Ethical Hacking

- Ethical Hacking Introduction
- Cyber Kill Chain
- Information Gathering and Scanning
- Footprinting through Web Services
- Footprinting through Social Networking Sites
- OS Discovery (Banner Grabbing/OS
- Fingerprinting)
- Scanning Beyond IDS and Firewall
- Vulnerability Analysis
- Weaponisation
- Delivery

- Website Footprinting Email
- Footprinting Whois Footprinting
- Host Discovery Port and Service
- Discovery Sniffing and Spoofing
- Network and System Exploitation
- Command and Control Privilege
- Escalation Post
- Exploitation
- Steganography
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Module 6:Application Security

- Application
- Penetration Testing Authentication
- Testing Authorisation Testing
- Client-side Attacks Server-side
- Attacks Server-side Attacks
- Network Penetration Testing
- Mobile Application Penetration
- Testing

Module 7:Social Engineering

- Social Engineering Concepts
- Social Engineering Techniques
- Phishing Attacks
- Insider Threats
- Impersonation on Social Networking Sites
- Identity Theft

Module 8:Web application Security

- Broken Access Control
- Cryptographic Failures
- SQL, OS, XSS and CMD Injections
- Insecure Application Design
- Security Misconfiguration
- File Path Traversal
- Testing for Vulnerable and Outdated
- Components
- XML External Entity Injection
- Identification and Authentication Failures
- Server-Side Request Forgery (SSRF)

Module 9:Hacking Wireless Network

- Wireless Concept,Threats, Encryption
- Hacking Methodology, Hacking tool
- Bluetooth hacking and wireless security
- tools

Module 10:Data Forensics & Incident Response

- Data Forensics
- Incident Handling Process
- Computer Forensics Investigation
- Process
- Hard Disks and File Systems
- Operating System Forensics
- Anti-Forensics Techniques
- Eradication and Recovery
- Exam Refresher
- EXAM 2

Interview preparation

- Aptitude and English
- Corporate ethics and etiquette
- Formal mail practice
- Group discussion
- How to handle interview questions
- Salary negotiation skills
- Linkedin networking
- Mock interviews

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