CYBER ENRICH TRAINING PROGRAM | MODULE 1

WEEK 1

February 18, 2023	Networking Background	
10:00 AM - 11:30 AM	Session 1	Networking Layering Architecture, OSI and TCP/IP Reference Models
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	OSI and TCP/IP Reference Models
February 19, 2023	Prominent Protocols and Their Vulnerabilities	
10:00 AM - 11:30 AM	Session 1	HTTP, FTP
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	DNS, DHCP

WEEK 2

February 25, 2023	Sniffing, Scanning and Recon - I	
10:00 AM - 11:30 AM	Session 1	Traffic Sniffing, MiTM Attacks, Nmap, Nessus
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Nexpose, BloodHound for AD Domain Enumeration
February 26, 2023	Sniffing, Scanning and Recon - II	
10:00 AM - 11:30 AM	Session 1	Powershell to Enumerate Windows Systems, SpiderFoot for OSINT
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Shodan, FOCA for Metadata Analysis

WEEK 3

March 4, 2023	Network Attacks & AppSec - I	
10:00 AM - 11:30 AM	Session 1	Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks, Application Layer DoS
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Testing for Application Vulnerabilities – Injection, XSS, XEE, CSRF

March 5, 2023	Network Attacks & AppSec - II	
10:00 AM - 11:30 AM	Session 1	Business Logic Flaws, Web Application Assessment Methodologies [1] OWASP Top 10 & Penetration Tester's Toolkit
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	SSL, Interception Proxies (Burpsuite, ZAP), Post Assessment & Reporting.
WEEK 4		
March 11, 2023	Cracking Passwords & Other Tools - I	
10:00 AM - 11:30 AM	Session 1	Password Attacks using Hash Dump and Mimikatz, John the Ripper & Hashcat
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Metasploit, Burpsuite, Endpoint Security Bypass Technique
March 12, 2023	Cracking Passwords & Other Tools - II	
10:00 AM - 11:30 AM	Session 1	Pivoting & Lateral Movement, Post-Exploitation Data Collection
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	ONLINE TEST - I	
END OF MODULE - I		

CYBER ENRICH TRAINING PROGRAM | MODULE II

WEEK 5

March 18, 2023	Network Access Control	
10:00 AM - 11:30 AM	Session 1	Firewalls and Deployment Strategies, NAT, IDS/IPS, Separation of Data Plane and Control Plane
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Network Segmentation, Proxy Servers, Common Network Access, and Mitigation
March 19, 2023	Identify & Access Management	
10:00 AM - 11:30 AM	Session 1	Basics, Lifecycle
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Federated Identity, SSO

WEEK 6

March 25, 2023	Mitigating Application Vulnerabilities	
10:00 AM - 11:30 AM	Session 1	DNSSec, Web Application, Firewalls, Secure Application Design
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Overview of Operating Systems (Linux & Windows), OS Hardening (CIS benchmarks)
March 26, 2023	Secure Operating Systems	
10:00 AM - 11:30 AM	Session 1	Operating Systems Security (Patches, File Permissions, Share Security), User Rights Assignment,
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Physical Security, IIS Security, Network Security, Active Directory Security

WEEK 7

April 1, 2023	Windows	
10:00 AM - 11:30 AM	Session 1	Operating Systems Security (Patches, File Permissions, Share Security)
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	User Rights Assignment, Physical Security

April 2, 2023	Linux	
10:00 AM - 11:30 AM	Session 1	**Operating Systems Security, Network Security, User & Group Security**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**File Systems Security, Backup, Linux Kernel Security, Apache Security**
WEEK 8		
April 8, 2023	Incident Response, Digital Investigation	
10:00 AM - 11:30 AM	Session 1	**Basics of Cyber Security, Digital Investigation - Overview, Sources & Challenges, Cyber Law**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Digital Evidence - Examination and Analysis, Computer and Mobile Forensics and Standards**
April 9, 2023	Digital Forensics	
10:00 AM - 11:30 AM	Session 1	**Principles, Documentation & Reporting, Quality Assurance,, Digital Forensics Challenges**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**ONLINE TEST - II**	
END OF MODULE - II		

CYBER ENRICH TRAINING PROGRAM | MODULE III		
WEEK 9		
April 15, 2023	**Basice of Cryptography and its Application**	
10:00 AM - 11:30 AM	Session 1	**Cryptography History, Basics and Overview**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Algorithms - Block and Stream Ciphers, Symmetric, Asymmetric Cryptographic Algorithms**
April 16, 2023	**Cyptographic Techniques**	
10:00 AM - 11:30 AM	Session 1	**Message Integrity (MAC, HMAC functions), Digital Signatures and Cryptographic Protocols (SSL.TLS)**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Different Types of Attacks on Encryption Algorithms, Block Ciphers, MAC Verifications**
WEEK 10		
April 22, 2023	**Cloud Security**	
10:00 AM - 11:30 AM	Session 1	**Basics & Overview of Cloud**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Public Cloud vs Private Cloud**
April 23, 2023	**Data Security**	
10:00 AM - 11:30 AM	Session 1	**Data Security: Data Classification, Data Encryption (at-rest and in-transit)**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Encryption Key Management, CASB (Cloud Access Security Brokers)**
WEEK 11		
April 29, 2023	**Audit, Logging,**	
10:00 AM - 11:30 AM	Session 1	**Cloud Service Control Plane & Data Plane Logging**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	**Security Incident Detection and Response in Cloud**

April 30, 2023	Compliance & Incident Response	
10:00 AM - 11:30 AM	Session 1	Compliance Standards for Cloud
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Prisma Cloud and Prisma compute
WEEK 12		
May 6, 2023	Building a Cloud Security Architecture	
10:00 AM - 11:30 AM	Session 1	Cloud Implementation Strategy, Complaince, Architecture Documentation
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	Architecture Implementation, Governance and Policies
May 7, 2023	Cloud Security Architecture Implementation	
10:00 AM - 11:30 AM	Session 1	Layered Defenses, Security Operations, Best Practices and Architectural Resources
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	Session 2	ONLINE TEST - III
END OF MODULE - III		

CYBER ENRICH TRAINING PROGRAM | MODULE IV

WEEK 13

May 13, 2023	**Introduction to IT Security**	
10:00 AM - 11:30 AM	**Session 1**	**Governance, Risk & Compliance, ISO27000, NIST Cyber Security Framework**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**Infrastructure Risk Management**
May 14, 2023	**Risk Management**	
10:00 AM - 11:30 AM	**Session 1**	**Application Risk Management**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**3rd Party Risk Management**

WEEK 14

May 20, 2023	**Security Incidents - I**	
10:00 AM - 11:30 AM	**Session 1**	**Equifax Data Breach, Capital One Breach, Mirai Botnet Attack,**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**Solar Winds - Supply Chain Attack,**
May 21, 2023	**Security Incidents - II**	
10:00 AM - 11:30 AM	**Session 1**	**WannaCry Ransomware Attack, Magecart Attacks**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**SOAR, Threat Intelligence, Red/Blue/Purple Teaming, DevSecOps**

WEEK 15

May 27, 2023	**AI & ML in Cyber Security - I**	
10:00 AM - 11:30 AM	**Session 1**	**Deep Learning Fundamentals from a Security Perspective**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**Use of AI/MLo Solve Problems in Cyber Security Space**

May 28, 2023	**AI & ML in Cyber Security - II**	
10:00 AM - 11:30 AM	**Session 1**	**Benefit of Adversaries from AI/ML**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**Future of AI & ML in Cyber Security**
WEEK 16		
June 3, 2023	**Q & A, FEEDBACK SESSION**	
10:00 AM - 11:30 AM	**Session 1**	**Q & A SESSION**
11:30 AM - 12:00 PM	Break	
12:00 PM - 01:30 PM	**Session 2**	**FEEDBACK SESSION**
June 4, 2023	**11:00 PM - 01:00 PM	MAIN ONLINE TEST**	
END OF PROGRAM		