



JOB **COMPETENCY** **PROGRAM (PART II)**

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LEARNING PATH

- Introduction to Ethical Hacking – (8-12 Nov 2021)
- Cloud Security – (15-19 Nov 2021)
- Introduction to Red Teaming & Python for Pentesters – (22-29 Nov 2021)
- Security Booster – (30 Nov & 1 Dec 2021)
- Questions & Answers – (2 & 3 Dec 2021)

Introduction to Ethical Hacking

Introduction to IS, CS & Careers in Cybersecurity

- What is information security
- What is cyber security
- Pillars of Security
- What is Hacking
- Hacker classes
- Different teams
- Basic terminology
- Impacts of Hack
- Skills of Cyber Security Professional
- Job roles

Hacking Methodology

- Foot printing/Reconnaissance/Information gathering
- Scanning
- Enumeration
- System hacking
- Covering the tracks
- Related Tools

Different types of malwares

- What is malware?
- Different types of malwares
- Virus and types
- Worms
- Trojans
- Keyloggers
- Spywares
- Ransomwares
- Adware
- Rootkits
- How to create a malware?
- Examples?

Different types of Cyber-attacks and counter measures

- What is cyber-attack?
- MITM Attack
- Mac spoofing
- Mac flooding
- ARP Poisoning
- DNS Cache poisoning
- DHCP Starvation attack
- DOS/DDOS Attack
- SQL injection
- Cross site scripting
- Reflected XSS
- Stored XSS
- Phishing

Social Engineering Attacks

- What is social engineering
- Phases of social engineering
- Types of social engineering
- Common Targets of Social engineering
- Different types social engineering attacks
 - Shoulder surfing
 - Eaves dropping
 - Tail gating
 - Piggy backing
 - Dumpster diving
 - Phishing
 - Vishing
 - Smishing
 - Whaling
 - Sphere phishing
 - Pharming
 - Tools

Cryptography

- What is cryptography
- Types of cryptography
- Classical Cryptography
 - Transpositional
 - Substitutional
- Modern Cryptography
 - Encryption
 - Encoding
 - Hashing
 - Digital signatures
 - Digital certificates

Cloud Security

Cloud Computing Concepts:

- Introduction to Cloud Computing
- Models
- Services
- Architecture

Container Technology:

- Containers
- VMs
- Microservices
- Dockers
- Container Orchestration
- Security Challenges

Serverless Computing

Threats, Vulnerabilities and Attack based on Cloud

Cloud Hacking

Cloud Security and Security Tools

Security Booster

Identity & Access Management

- Common Management Steps: Identity, Authentication,
- Authorization, Accounting
- Access Control Types
- Authentication Factors
- IAM – Common Problems & Solutions

Incident Response

- Introduction to Incident
- Incident Response Process
- Lockheed Martin Cyber Kill Chain

Introduction to Digital Forensics

- Types of Forensics
- Why is it useful
- Types of Evidence
- Chain Of Custody
- Steganography Practical

Introduction To RED TEAMING

- **What is Red Team?**
- **Introduction to Red Team's Plan and Execution**
- **Introduction to Pen-Testing**
 - Penetration Testing Benefits
 - Types of Penetration Testing
 - Penetration Testing Methodologies
 - Law & Compliance
 - Planning, Managing & Reporting
- **Hands On with Linux**
 - The Linux Filesystem
 - Basic Linux Commands
 - Finding Files in Linux
 - Managing Linux Services
 - Searching, Installing, and Removing Tools
 - The Bash Environment
 - Piping and Redirection
 - Text Searching and Manipulation
 - Backgrounding Processes (bg)
 - Jobs Control
 - Process Control
 - File and Command Monitoring
 - Downloading Files

- Scripting Skills
- Technologies Exploitation in Red Teaming
- Information Gathering & Enumeration
- How to enumerate vulnerabilities
- How to gain foothold on the target
- Red Team tools
- Crack the Hash
- What if stuck?
- Methodology of Red Teaming
- Hacking into 2 VMs (from vulnhub)

Python for Pentesters

- What is programming?
- Different programming languages.
- Interpreted vs Compiled languages.
- What is Python?
- Why Python?
- Installation of python
- Basics of python
 - Variables
 - Loops
 - Basic Data Structures
 - List
 - Tuple
 - Set
 - Dictionary
 - How to write a program
- What is web scraping?
- How to do web scraping?
 - Using selenium
 - Using Web Driver
- What are port scanners?
 - Python program for port scanning.

- **Python for pentesters**
 - Zip Password Brute force program
 - Socket Programming
 - NMAP based scanner
 - Tools automation
 - Auto recon tool
 - Etc
- **Advance Python (Bonus Content)**
 - Complete tools automation
 - Python Scripting
 - Voice Control Automated Script
 - How to make one liners in python
- **What next?**



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