Ties Infotech, Division of Ties Institute for Career Training

Deccan Gymkhana, Pune

Cyber Security Brochure

About Us

TIES INFOTECH is a leading cybersecurity training institute based in Pune..Our focus is on practical learning and industry-ready skills to help students build successful careers in cybersecurity.

Why Choose Us?

- 16+ yrs Experienced Expert Trainer
- Hands On Training
- Hybrid Mode
- Live Demo
- Placement Assistance
- Repeat Sessions on request
- Resume Preparation Session
- LinkedIn Profile Session

Contact Us

Office No 303, Third Floor, Sunny Pride, Near, Z Bridge, Deccan Gymkhana, Pune, Maharashtra 411004

www.infotech.tiesinstitute.com
tiesinfotech@gmail.com

@TIESINFOTECH

CALL NOW
7058229371

TIES INFOTECH

Our Cyber Security Courses:

1. Ties Certified Security Associate
2. OSCC(Sec-100:CyberCore Security Essentials)
3. Ties Certified Cyber Forensics

Contact: Ms. Sapna Mob: 7058229371 Email: tiesinfotech@gmail.com Website: www.infotech.tiesinstitute.com
Address: 3rd Floor, Sunny Pride, Near Z Bridge, J M Road, Deccan, Pune 411004

Ties Certified Security Associate Syllabus

A] Module 1

1) **Introduction to Cyber security**
   a) What is Cyber security
   b) Understanding the cyber security terminology
   c) CIA Triad, Separation of Duties, Org Structure
   d) Top Down and Bottom-up Approach

2) **Fundamentals of Networking**
   a) Introduction to Networking
   b) Understanding Networks and Networking
   c) Types of Networks: LAN, MAN, WAN, and Internet
   d) Network Topologies: Bus, Ring, Star, and Mesh
   e) Essential Network Components: NIC Cards, MAC Addresses, Media, and Devices (Hubs, Switches, Routers, Firewalls)
   f) OSI Reference Model and TCP/IP Model
   g) Understanding IP Addresses
   h) Types of IP Addressing: IPv4 and IPv6
   i) Subnetting Techniques

3) **Operating Systems Basics**
   a) Linux Basics
   b) Windows Basics

B] Module 2

4) **Information Gathering**

5) **Proxy & VPN**

6) **Risk Management Fundamentals**
   a) Asset Management, Threat and Vulnerability
   b) Threat, Threat Agent, Exploit, Quantitative and Qualitative Risk Assessment
   c) Risk Management Lifecycle
      i) Assessment, Analysis, Mitigation, and Response
   d) Risk Management Framework

Contact: Ms. Sapna Mob: 7058229371 Email: tiesinfotech@gmail.com Website: www.infotech.tiesinstitute.com
Address: 3rd Floor, Sunny Pride, Near Z Bridge, J M Road, Deccan, Pune 411004

i) ISO31000, ISO27000, Steps involved in Risk Management Framework

7) Scanning

a) What is Scanning
b) What is Enumeration
c) Scanning methodology
d) Blue Teaming, Red Teaming, Purple Teaming
e) Vulnerability Assessment
f) Penetration Testing

8) Phishing

a) What is Phishing
b) Phishing techniques
c) Spear Phishing,
d) Whaling,
e) Piggybacking,
f) Watering Hole

9) Mobile Security

a) Device Encryption
b) Internal Locks (Voice, Face Recognition, Pattern, PIN, Password)
c) Application Installation Control, Asset Tracking (IMEI)
Mobile Device Management, Removable Storage (SD CARD, Micro SD etc.)
d) Gaining Access to Mobile

C] Module 3

10) Introduction to Metasploit

a) Understanding Local exploit & Remote exploit
b) Understanding Exploits, Payloads, Auxiliary, etc
c) Gaining access to endpoints using metasploit

11) Malware

a) What is Malware
b) Types of Malware
c) Privilege Escalation
d) Unauthorized Application Execution

e) Virus, Worms, Logic Bomb, Trojan, Backdoor, Sniffing, Zero-Day Attack, Ransomware, Rootkit, Spyware, etc

12) Cryptography

a) What is Cryptography
b) Types of Cryptography
c) Digital Signature, Hashing
d) Cryptography Algorithms (DES, AES, IDEA, Twofish)

13) Denial of service attack & Defences (DoS & DDoS)

a) What is DoS
b) What is DDoS
c) Botnets
d) DoS/ DDoS attack techniques

14) Wireless Hacking

a) What is a Wireless Network
b) Types of Wireless Networks
c) Different WiFi standards
d) WiFi attacks

15) Network Security

a) OSI Model, Attacks in OSI Layers, Network Types, Network Methods and Standards, Hardware Devices
b) VPN Protocols, Firewall and Perimeter Security
c) Firewall, Types of Firewalls, DMZ, Honeypot
d) Different Types of Network Attacks

D] Module 4

16) Firewalls

a) What is a Firewall
b) Different Firewall technologies
c) Packet Filtering Firewall
d) Stateful Firewall
   i) Designing Security with Firewall
   ii) NAT
   iii) Security Policy

iv) Content Management
v) User Identity Management
vi) Logging
vii) Reporting

17) IoT and Internet Security

a) Network Segmentation (Isolation), Logical Isolation (VLAN), Physical Isolation (Network Segments)
b) Application Firewalls, Firmware Updates

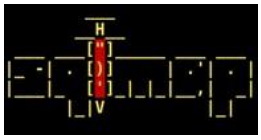
18) Vulnerability Assessment and Pen Test

a) Steps Involved
b) Test Types
c) Test Strategies
d) Reporting

19) SOC(Security Operations Center)

a) Introduction to SOC(S)
b) Roles under SOC

TOOLS COVERED:



Contact: Ms. Sapna Mob: 7058229371 Email: tiesinfotech@gmail.com Website: www.infotech.tiesinstitute.com
Address: 3rd Floor, Sunny Pride, Near Z Bridge, J M Road, Deccan, Pune 411004

Contact: Ms. Sapna Mob: 7058229371 Email: tiesinfotech@gmail.com Website: www.infotech.tiesinstitute.com
Address: 3rd Floor, Sunny Pride, Near Z Bridge, J M Road, Deccan, Pune 411004

& Many More

Address:

Office No 303, Third Floor, Sunny Pride, Near, Z Bridge, Deccan Gymkhana, Pune, Maharashtra 411004

Email ID:

tiesinfotech@gmail.com

Contact:

7058229371

https://www.instagram.com/tiesinfotech?igsh=MW9vNzlkamd1YTY5cQ==

@TIESINFOTECH

https://www.linkedin.com/in/tiesinstitute/

www.infotech.tiesinstitute.com

Contact: Ms. Sapna Mob: 7058229371 Email: tiesinfotech@gmail.com Website: www.infotech.tiesinstitute.com
Address: 3rd Floor, Sunny Pride, Near Z Bridge, J M Road, Deccan, Pune 411004