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Since 1997 | One Lakh Students Trained

AN ISO 9001:2015 COMPANY





Oxford Certified

Network and CyberSecurity Professional - 5 Months

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Networking Basics

- Definition of Networks
- Types of Networks (LAN, WAN)
- Importance of Networking
- Network Topologies
- Peer-to-Peer Networks
- Client-Server Networks



OSI Model

- Overview of OSI Layers
- Application Layer
- Transport Layer
- Network Layer
- Data Link Layer
- Physical Layer

Networking Devices & Cabling

- Network Devices
- Types & Uses of Devices
- Types of Cables (Ethernet)
- **⇔** Cable Categories (Cat5, Cat6)
- Fiber Optic Cabling
- Twisted Pair vs. Coaxial
- Wireless signals & its types





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Network Topologies & Protocols

- Network topology
- physical & logical topologies
- Define idle topology & its uses
- HTTP vs. HTTPS
- SMTP and POP3 for Email
- Telnet and SSH (Secure Shell)
- ICMP and Ping Operations



Network Configuration

- Peer to Peer Network
- Mapping of Data
- Resource Sharing
- Remote Desktop
- Remote Assistance
- Local users, Group and managing



IP Addressing

- Understanding IP Addresses
- Public vs. Private IPs
- Subnet Mask Explanation
- IPv4 Addressing Scheme
- Need for IPv6
- IPv6 Address Structure
- IPv6 Adoption Challenges



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Intro to Cybersecurity

- Definition of Cybersecurity
- Importance of Cybersecurity
- Key Threats and Risks
- Evolution of cybersecurity
- Cybersecurity Objectives
- Cybersecurity principles





Types of Attacks

- Malware (Virus, Worms)
- Phishing Attacks
- Denial of Service (DoS)
- Man-in-the-Middle (MITM)
- SQL Injection
- Zero-Day Exploits

Endpoint Security

- Antivirus and Antimalware
- Endpoint Detection & Response
- Secure Device Configuration
- Patch Management Systems
- Mobile Device Security
- Application Whitelisting



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Encryption Basics

- Symmetric Encryption
- Asymmetric Encryption
- SSL/TLS Protocols
- Public Key Infrastructure
- Hashing Algorithms
- Encryption in Transit



Security Policies

- Importance of Policies
- Acceptable Use Policy
- Data Classification Policy
- BYOD (Bring Your Own Device)
- Incident Response Policy
- Employee Training and Awareness



Cryptography Uses

- Data Encryption Techniques
- Email Encryption Standards
- Encrypted File Systems
- Digital Signatures
- Secure Messaging Protocols
- Blockchain Encryption



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RISK

Risk Management

- Identifying Security Risks
- Risk Assessment Techniques
- Risk Mitigation Strategies
- Vulnerability Management
- Penetration Testing
- Cost-Benefit Analysis



Disaster Recovery

- Disaster Recovery Planning
- Backup and Restore Procedures
- Business Continuity Plans
- Data Replication Methods
- Recovery Time Objective (RTO)
- Testing Recovery Plans



- Secure Software Development
- Code Vulnerability Scanning
- OWASP Top 10 Risks
- Web Application Firewalls
- Static vs. Dynamic Testing
- Secure DevOps (DevSecOps)



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Social Engineering

- Types of Social Engineering
- Phishing and Spear Phishing
- Pretexting and Baiting
- Impersonation Techniques
- Mitigating Social Engineering
- Training Against Social Threats



Malware & Threats

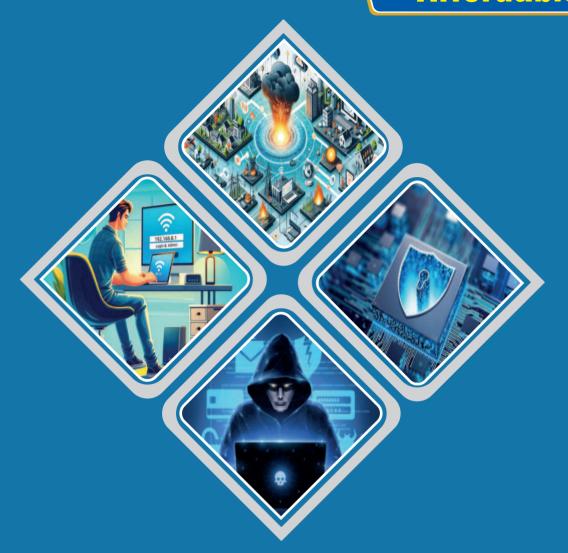
- Types of Malwares
- Malware Distribution Methods
- Advanced Persistent Threats
- Botnets and Spyware,
- Malware Detection Tools
- Malware Removal Strategies

Wireless Security

- Securing Wi-Fi Networks
- WPA, WPA2, WPA3 Protocols
- Wireless Threats and Attacks
- Wireless Intrusion Prevention
- Securing Bluetooth Devices
- ♦ Wireless Network Encryption



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Pitampura

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