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Network and CyberSecurity Professional - 5 Months

Authorised Grade A Training Partner of National Skill Development Corporation,
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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



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



IP Addressing

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



Network Configuration

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



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



Encryption Basics

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



Cryptography Uses

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

Security Policies

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



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

Application Security

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



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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