



CERTIFIED NETWORK DEFENDER COURSE

Prepared By (CTO) SYNTHOQUEST

45 Days Duration

Duration: 45 days × 2 hrs/day = 90 hrs

Goal: Equip professionals with the skills to protect, monitor, and defend enterprise networks against modern cyber threats.

Core Domains

1. Network Security Fundamentals (20%)

- OSI/TCP-IP protocols, subnetting, routing, VLANs
- Network topologies, devices, and components
- Network threats, vulnerabilities, and attack vectors

2. Network Security Controls & Defense (25%)

- Firewalls, IDS/IPS, VPNs, NAC, WAF
- Endpoint security, antivirus/anti-malware, patching strategies
- Access control methods (AAA, RBAC, 802.1X)

3. Network Monitoring & Traffic Analysis (20%)

- Packet capturing & analysis (Wireshark, tcpdump)
- Flow monitoring (NetFlow, sFlow)
- Log monitoring & correlation

4. Network Vulnerability Assessment & Management (15%)

- Scanning & enumeration (Nmap, Nessus, OpenVAS)
- Vulnerability lifecycle management
- Security auditing & compliance

5. Incident Handling & Response (20%)

- Network incident response framework
- Detection, containment, eradication, recovery
- Forensic collection & analysis
- Business continuity & disaster recovery considerations

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