CYBERPROAi Israel | IITC IT PROFESSIONAL ACADEMY

NETWORK SECURITY & CYBER COURSE

SYLLABUS | 215 HOURS

Module 1	• Introduction to cybersecurity		5 Hours
Module 2 Networking	• General communication concept • Functional end-point network components • IPv4 assignment options • MAC address and vendors	• The VLSM concept • DHCP configuration • Dynamic routing (OSPF/RIP) • HTTP authentication and analysis	35 Hours
Module 3 Microsoft Technologies On-Prem	• VirtualBox network adapters • Windows OS • Windows shells (CMD and PowerShell) • What is a server • Active directory centralized unit • AD objects management	• Applying group policy • GPO templates • AD authentication • NTLM authentication • Kerberos authentication • Active Directory Hardening	35 Hours
Module 4 Linux	• Open-source concepts • Importing the VM • Introduction to the shell • Users and groups & Permissions • Remoting (SSH Client)	• SSH protocol explained • Processing text with delimeters • Package management • Hash algorithms • Find bineries and documentation (which, where is)	50 Hours
Module 5 Anatomy of an Attack	• The cyber kill chain and MITRE • Introduction to reconnaissance (OSINT) • Active scanning	• Brute force attacks • Introduction to vulnerabilities and CVEs • Remote control	40 Hours
Module 6 SIEM/SOC	• The importance of SOC • SOC Roles • Mitre Attack • IP Investigation / Public Tools • What is Incident Response	• Common Attack Investigation - DDoS / Malware / Ransomware • Event Viewer • SIEM Introduction • Definitions and Terms • SIEM Architecture - Wazuh / Qradar / Splunk	45 Hours
Module 7 Introduction to AI	• Introduction to AI		5 Hours