

# **NS3EDU – Cyber Security Curriculum**

**Industry-Oriented | Job-Focused | Hands-On Training**

## **LEVEL 1: Cyber Security Fundamentals (Beginner Level)**

### **Part 1: Introduction to Cyber Security**

- What is Cyber Security - Need for Cyber Security in Modern IT - Cyber Threat Landscape - Cyber Security Domains - Career Opportunities in Cyber Security

Learn Today (\$\$) Earn Tomorrow

### **Part 2: Networking Basics for Security**

- Networking Overview (LAN, WAN, Internet)
- OSI & TCP/IP Models (Security View)
- IP Addressing, Ports & Protocols
- Firewalls & Routers Basics
- Network Traffic Flow

### **Part 3: Operating System Fundamentals**

- Windows OS Architecture
- Linux OS Architecture
- User & Permission Management
- File Systems & Processes
- System Logs

## **Part 4: Cyber Threats & Attacks**

- Malware Types - Phishing & Social Engineering - DoS & DDoS
- Attacks - Man-in-the-Middle
- Attacks - Password Attacks

## **Part 5: Security Principles & Controls**

- CIA Triad - Authentication vs Authorization - Access Control
- Models - Security Policies - Risk Management Basics

# **LEVEL 2: Cyber Security Analyst** **(Intermediate Level)**

## **Part 6: Network Security**

- Firewall Types & Configuration
- IDS & IPS - VPN & Secure Communication - Network Segmentation - Network Hardening

## **Part 7: Web Application Security**

- OWASP Top 10 - SQL Injection - Cross-Site Scripting (XSS) - CSRF Attacks - Authentication Vulnerabilities

## **Part 8: Endpoint & System Security**

- Endpoint Protection - Antivirus & EDR - Patch Management - System Hardening - Secure Configuration

## **Part 9: Security Monitoring & SOC**

- SOC Overview - SIEM Tools - Log Collection & Analysis - Alert Handling - Incident Identification

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## **Part 10: Incident Response & Digital Forensics**

- Incident Response Lifecycle - Threat Containment - Evidence Collection - Forensic Analysis - Reporting

# **LEVEL 3: Advanced Cyber Security (Professional Level)**

# **Part 11: Ethical Hacking Fundamentals**

- Ethical Hacking Methodology - Reconnaissance Techniques - Scanning & Enumeration - Vulnerability Assessment - Legal & Ethical Guidelines

# **Part 12: Cloud & Cyber Security**

- Cloud Security Fundamentals - IAM & Access Control - Cloud Network Security - Data Protection - Shared Responsibility Model

# **Part 13: Governance, Risk & Compliance (GRC)**

- Security Governance - Risk Assessment  
- ISO 27001, GDPR, PCI-DSS -  
Security Audits

# **Part 14: Advanced Threats & Defense**

- Advanced Persistent Threats - Threat Intelligence -  
Malware Analysis Basics - Blue Team Operations

# **Part 15: Real-World Cyber Security Projects**

- Network Security Implementation - SOC Monitoring Project - Web Application Security Testing - Incident Response Simulation - Cloud Security Deployment

# Part 16: Career & Certification Preparation

- Cyber Security Job Roles
- SOC Analyst Career Path
- CEH, Security+, ISO 27001 Overview
- Interview Preparation
- Resume & Project Guidance

## Outcome

Learners become job-ready cyber security professionals capable of securing systems, monitoring threats, responding to incidents, and working in SOC and enterprise environments.

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