

Network Security (CompTIA Security+)

COURSE OUTLINE



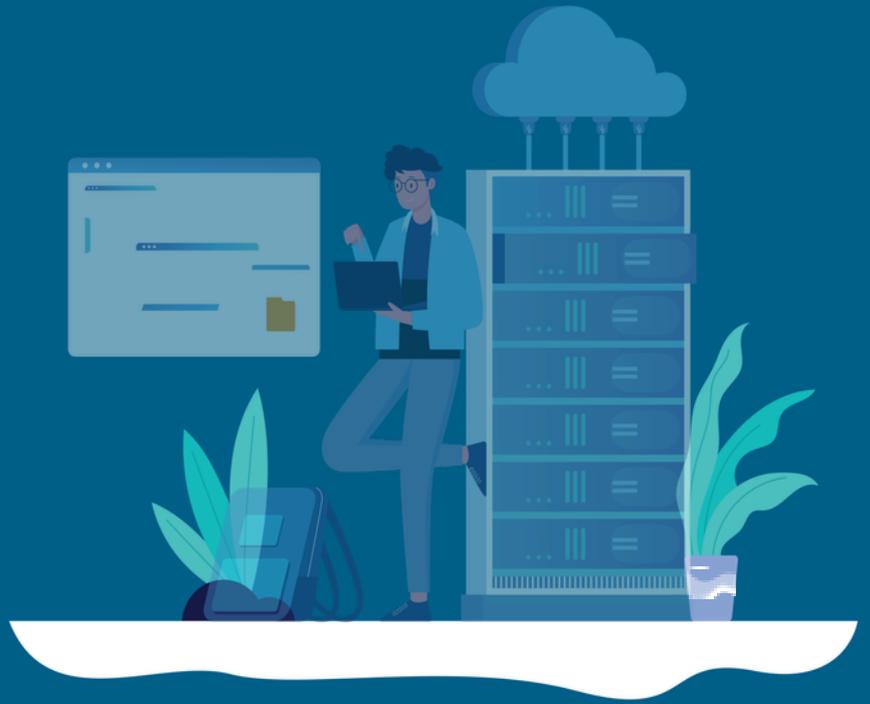
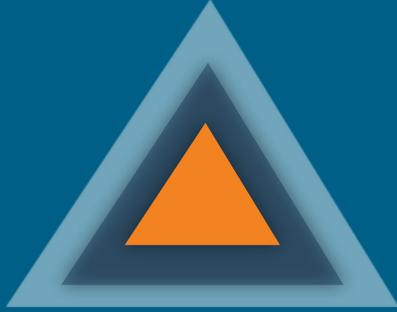
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NS3EDU: BRIDGE
YOUR

IT DREAMS
TO REALITY



EMPOWERING CAREERS THROUGH KNOWLEDGE

Looking to make it big in the world of IT networking? Look no further than NS3Edu! We help beginners learn the ropes & experienced pros master new skills. Come join us and build your dream career!

CERTIFICATES



MISSION

The mission of NS3Edu is to

empower our candidates with in-depth knowledge of IT fundamentals along with real-time industry experience and also take 100% responsibility for the placement by making them Industry fit.



VISION

In-depth knowledge + hands-on experience + analytical thinking = placement



Learning



Opportunity



Experience

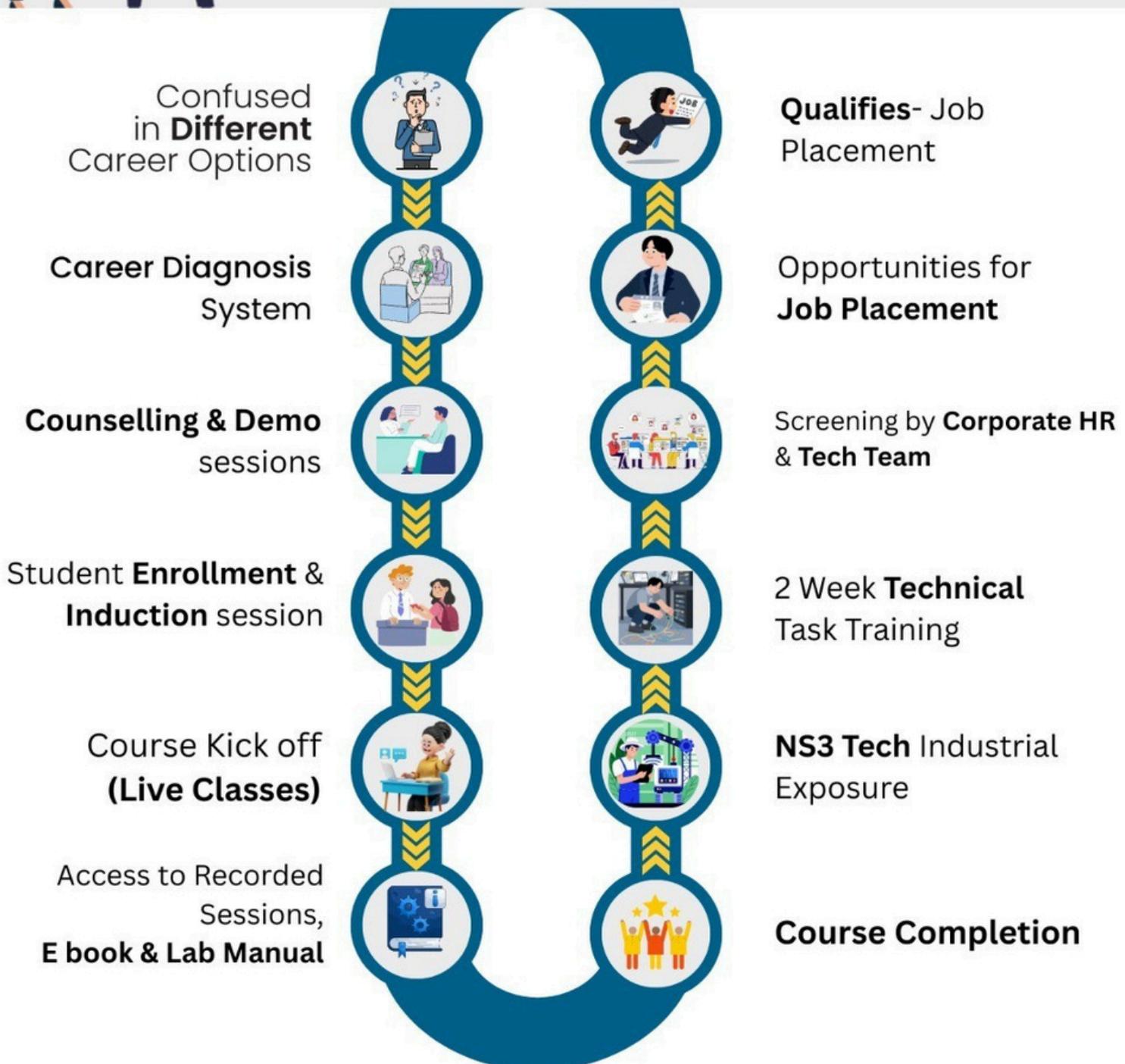


Career



ROADMAP OF **JOB**

PLACEMENT



WHAT MAKES US UNIQUE?

USP'S

Industry Demand &
Customized Courses



Course Outline

LEVEL 1: Security Fundamentals & Threat Landscape (Beginner Level)

Part 1: Introduction to Cyber & Network Security

- What is Cyber Security
- Importance of Network Security
- CIA Triad (Confidentiality, Integrity, Availability)
- Security Roles & Career Paths
- Security in Modern Enterprises

Part 2: Types of Threats & Attacks

- Malware (Virus, Worm, Trojan, Ransomware)
- Social Engineering Attacks
- Phishing, Vishing & Smishing
- Password Attacks
- Insider Threats

Part 3: Network Attacks & Vulnerabilities

- DoS & DDoS Attacks
- Man-in-the-Middle (MITM)
- Spoofing & Poisoning
- Vulnerability Types
- Common Network Weaknesses

LEVEL 2: Network Security Technologies & Controls (Intermediate Level)

Part 4: Network Security Devices

- Firewalls (Stateful vs NGFW)
- IDS & IPS
- Proxy Servers
- VPN Concentrators
- Network Segmentation

Part 5: Secure Network Architecture

- Secure Network Design
- DMZ Architecture
- VLANs & Network Segmentation
- Zero Trust Network Model
- Defense-in-Depth

Part 6: Identity & Access Management (IAM)

- Authentication vs Authorization
- MFA (Multi-Factor Authentication)
- RADIUS & TACACS+
- Least Privilege Principle
- Account Management

Part 7: Cryptography & PKI

- Encryption Concepts
- Symmetric vs Asymmetric Encryption
- Hashing & Digital Signatures
- Certificates & PKI
- SSL / TLS

LEVEL 3: Security Operations, Risk & Compliance (Professional Level)

Part 8: Secure Protocols & Network Hardening

- Secure Network Protocols
- Port Security
- Secure Wireless Networks
- Network Hardening Techniques
- Patch Management

Part 9: Monitoring, Detection & Incident Response

- Security Monitoring Basics
- Logs & Alerts
- SIEM Overview
- Incident Response Lifecycle
- Forensics Basics

Part 10: Risk Management & Governance

- Risk Assessment
- Threat Modeling
- Security Policies & Procedures
- Compliance Standards (ISO, GDPR, PCI-DSS – Intro)
- Business Impact Analysis

Part 11: Cloud & Virtualization Security

- Cloud Security Basics
- Shared Responsibility Model
- Virtualization Security
- Container Security Overview
- Secure Remote Access

Part 12: Real-World Security Labs & Scenarios

- Network Attack Simulation
- Firewall & IDS Scenarios
- Secure Network Design Lab
- Incident Response Case Studies
- Risk Assessment Project

Part 13: Career & Certification Preparation

- CompTIA Security+ Certification Overview
- Exam Domains & Blueprint
- Security Analyst & SOC Roles
- Interview Questions & Scenarios
- Resume & Job Preparation
- Mock Interviews

OUR PLACEMENT PARTNERS



YOUR FUTURE OUR RESPONSIBILITY



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Get trained with certified trainers



24X7 Lab access



Employability enhancement program



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NETWORK SECURITY



CYBER SECURITY



CLOUD SERVICE



FULL STACK DEVELOPMENT



DIGITAL MARKETING



DATA SCIENCE



AI ML LEARNING