NS3EDU.

📖 Learn Today 💲 Earn Tomorrow

Palo Alto, Cisco
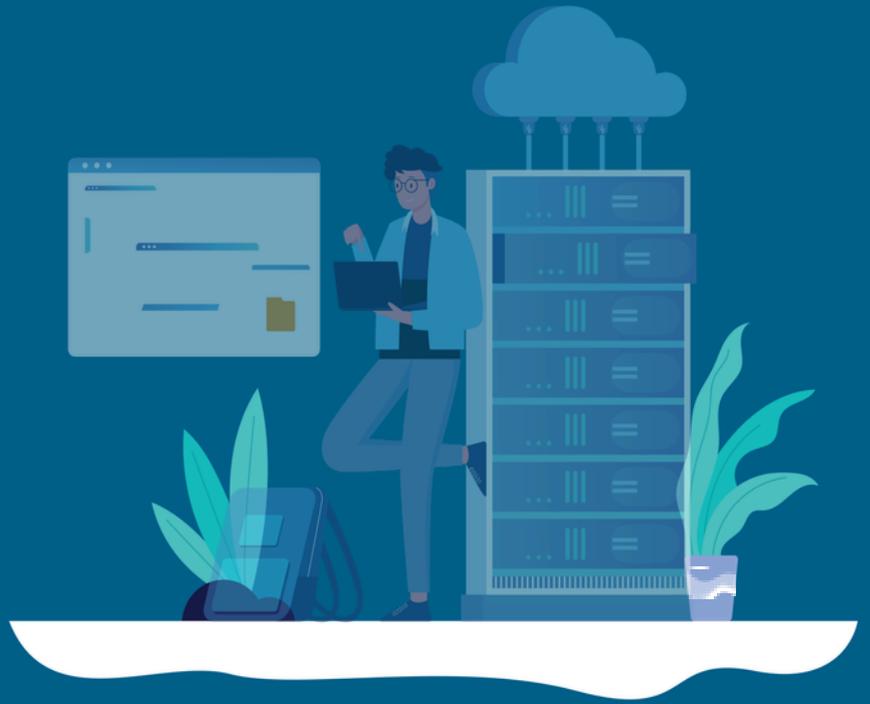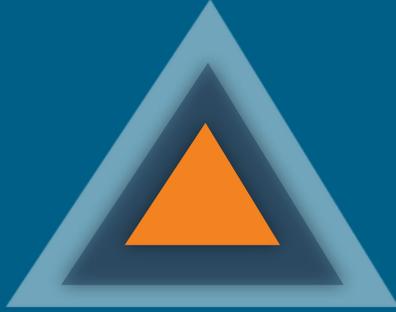## ASA, Fortigate, FTD

COURSE OUTLINE

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NS3EDU: BRIDGE YOUR IT DREAMS TO REALITY

EMPOWERING CAREERS
THROUGH KNOWLEDGE

Lookingto makeitbigin 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!

MISSION

Themissionof NS3Eduisto 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.

CERTIFICATES

VISION

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

ROADMAP OF
JOB
PLACEMENT

Confused in **Different** Career Options

Career Diagnosis System

Counselling & Demo sessions

Student **Enrollment & Induction** session

Course Kick off **(Live Classes)**

Access to Recorded Sessions, **E book & Lab Manual**

Qualifies- Job Placement

Opportunities for **Job Placement**

Screening by **Corporate HR & Tech Team**

2 Week **Technical** Task Training

NS3 Tech Industrial Exposure

Course Completion

WHAT MAKES US UNIQUE?

USP'S

Industry Demand & Customized Courses

Smart Classrooms

100% Job Placement

Offline/Online Classroom Mode

Lifetime Membership

Recorded Sessions & Mock Interviews

Employability Enhancement Program

100% Industry Fit

24*7 Lab Access & Real-time Troubleshooting

Certified Trainers & Advance Lab

Course Outline

LEVEL 1: Network Security & Firewall Foundations (Beginner → Intermediate)

Part 1: Network Security Fundamentals
- Network Security Principles
- Threat Landscape & Attack Types
- Defense-in-Depth
- Zero Trust Basics
- Firewall Evolution (Traditional → NGFW)

Part 2: Firewall Core Concepts
- Stateful vs NGFW
- Security Zones
- Policy Flow & Rule Matching
- NAT Fundamentals
- Logging & Monitoring Basics

Part 3: Vendor Landscape & Use-Cases
- Palo Alto vs ASA vs FortiGate vs FTD
- Where each firewall fits best
- Enterprise & SOC deployment scenarios

LEVEL 2: Vendor-Specific Firewall Implementation (Professional Level)

Part 4: Palo Alto Networks (NGFW)

- PAN-OS Architecture (Data/Control/Management Plane)
- Deployment Modes (L3, L2, Virtual Wire)
- App-ID, User-ID, Content-ID
- Security Policies & NAT
- Threat Prevention, URL Filtering, Wild Fire
- Global Protect VPN
- Logging, Reports & Troubleshooting

Part 5: Cisco ASA

- ASA Architecture & Modes
- Interface & Security Levels
- Access-Lists & NAT
- Site-to-Site IPsec VPN
- Remote Access VPN (AnyConnect – Intro)
- ASA Troubleshooting & Logs

Part 6: FortiGate (Fortinet)

- FortiOS Architecture
- Policy-Based Firewalling
- UTM Features (AV, IPS, Web Filter)
- SD-WAN Basics on FortiGate
- IPsec & SSL VPN
- FortiAnalyzer / Logging Basics

Part 7: Cisco Firepower Threat Defense (FTD)

- FTD Architecture & FMC
- Access Control Policies
- Intrusion Policies (IPS)
- Malware & File Policies
- NAT & Routing on FTD
- VPN on FTD
- Monitoring & Troubleshooting

LEVEL 3: Advanced Security, HA & SOC Integration (Expert Level)

Part 8: High Availability & Scalability

- Active-Passive vs Active-Active
- HA on Palo Alto, ASA, FortiGate, FTD
- Failover Scenarios
- Backup & Restore

Part 9: Advanced Threat Defense

- IPS/IDS Deep Dive
- SSL/TLS Decryption (Concepts)
- DoS/DDoS Protection
- Zero Trust Enforcement

Part 10: Monitoring, Logs & SOC Workflow

- Traffic vs Threat Logs
- Log Correlation & Analysis
- Incident Detection
- SIEM Integration (Intro)

Part 11: Automation & APIs (Intro)

- Firewall Automation Use-Cases
- REST APIs Overview
- Policy Automation Concepts
- Python Basics for Security Engineers

Part 12: Real-World Multi-Vendor Projects

- Enterprise Firewall Design (Multi-Vendor)
- Palo Alto + FortiGate Edge Security
- Cisco ASA → FTD Migration Scenario
- Secure Branch & Data Center Firewalling
- SOC-Based Incident Response Case Studies

Part 13: Career & Certification Preparation

- Network / Firewall Security Engineer Roles
- PCNSA / PCNSE Overview
- Cisco Security Certification Path
- Fortinet NSE Path Overview
- Interview Questions & Scenarios
- Resume & Lab Portfolio Guidance
- Mock Interviews

Tools & Technologies Covered

- Palo Alto NGFW (PAN-OS)
- Cisco ASA
- Cisco Firepower (FTD & FMC)
- FortiGate (FortiOS)
- VPN Technologies (IPsec / SSL)
- Wireshark
- SIEM (Intro)
- Python & APIs (Intro)

OUR PLACEMENT
PARTNERS

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info@ns3edu.com
www.ns3edu.com
+91-9821442746
3rd Floor, B9, Block B, Old DLF Colony, Sector 14, Gurugram, Haryana 122007

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