



# NS3EDU.

Learn Today 💰 Earn Tomorrow

# Course Outline of **CEH**



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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!



## 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.

## CERTIFICATES



## VISION

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



Learning



Opportunity



Experience



Career



# ROADMAP OF

# JOB

# PLACEMENT

Confused in **Different** Career Options



**Qualifies-** Job Placement



Counselling & **Demo** sessions



Opportunities for **Job** Placement



Student Enrollment & Induction **session**



Screening by Corporate **HR & Tech** Team



Course **Kick off** (Live Classes)



2 Week **Technical Task** Training



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



NS3 Tech **Industrial** Exposure



Course **Completion**



Learning



Opportunity



Experience



Career



# WHAT MAKES US UNIQUE?

## USP's



# CEH SYLLABUS :

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## Module 01 – Introduction to Ethical Hacking

- Lesson 01 – Information Security Overview
- Lesson 02 – Information Security Threats and Attack Vectors
- Lesson 06 – Penetration Testing Concepts
- Lesson 03 – Hacking Concepts
- Lesson 04 – Ethical Hacking Concepts
- Lesson 05 – Information Security Controls
- Lesson 07 – Information Security Laws and Standards

## Module 02 – Footprinting and Reconnaissance

- Lesson 01 – Information Security Overview
- Lesson 02 – Information Security Threats and Attack Vectors
- Lesson 06 – Penetration Testing Concepts
- Lesson 03 – Hacking Concepts
- Lesson 04 – Ethical Hacking Concepts
- Lesson 05 – Information Security Controls
- Lesson 07 – Information Security Laws and Standards

## Module 03 – Scanning Networks

- Lesson 01 – Network Scanning Concepts
- Lesson 02 – Scanning Tools
- Lesson 03 – Scanning Techniques
- Lesson 04 – Scanning Beyond IDS and Firewall
- Lesson 05 – Banner Grabbing
- Lesson 06 – Draw Network Diagrams
- Lesson 07 – Scanning Pen Testing

## Module 04 – Enumeration

- Lesson 01 – Enumeration Concepts
- Lesson 02 – NetBIOS Enumeration
- Lesson 03 – SNMP Enumeration
- Lesson 04 – LDAP Enumeration
- Lesson 05 – NTP Enumeration
- Lesson 06 – SMTP Enumeration and DNS Enumeration
- Lesson 07 – Enumeration Countermeasures
- Lesson 08 – Other Enumeration Techniques
- Lesson 09 – Enumeration Pen Testing

## Module 05 – Vulnerability Analysis

- Lesson 01 – Vulnerability Assessment Concepts
- Lesson 02 – Vulnerability Assessment Solutions
- Lesson 03 – Vulnerability Scoring Systems
- Lesson 04 – Vulnerability Assessment Tools
- Lesson 05 – Vulnerability Assessment Reports

## Module 06 – System Hacking

- Lesson 01 – System Hacking Concepts
- Lesson 02 – Cracking Passwords
- Lesson 03 – Escalating Privileges
- Lesson 04 – Executing Applications
- Lesson 05 – Hiding Files
- Lesson 06 – Covering Tracks
- Lesson 07 – Penetration Testing

## Module 07 – Malware Threats

- Lesson 01 – Malware Concepts
- Lesson 02 – Trojan Concepts
- Lesson 03 – Virus and Worm Concepts
- Lesson 04 – Malware Analysis
- Lesson 05– Countermeasures
- Lesson 06– Anti-Malware Software
- Lesson 07– Malware Penetration Testing

## Module 08 – Sniffing

- Lesson 01– Sniffing Concepts
- Lesson 02– Sniffing Technique: MAC Attacks
- Lesson 03– Sniffing Technique: DHCP Attacks
- Lesson 04– Sniffing Technique: ARP Poisoning
- Lesson 05– Sniffing Technique: Spoofing Attacks
- Lesson 06– Sniffing Technique: DNS Poisoning
- Lesson 07– Sniffing Tools
- Lesson 08– Countermeasures
- Lesson 09– Sniffing Detection Techniques
- Lesson 10– Sniffing Pen Testing

## Module 09 – Social Engineering

- Lesson 01 – Social Engineering Concepts
- Lesson 02 – Social Engineering Techniques
- Lesson 03– Insider Threats
- Lesson 04 – Impersonation on Social Networking Sites
- Lesson 05 – Identity Theft
- Lesson 06 – Countermeasures
- Lesson 07 – Social Engineering Penetration Testing

## Module 10- Denial-of-Service

- Lesson 01 - DoS/DDoS Concepts
- Lesson 02 - DoS/DDoS Attack Techniques
- Lesson 03 - Botnets
- Lesson 04 - DDoS Case Study
- Lesson 05 - DoS/DDoS Attack Tools
- Lesson 06 - Countermeasures
- Lesson 07 - DoS/DDoS Protection Tools
- Lesson 08 - DoS/DDoS Attack Penetration Testing

## Module 11- Session Hijacking

- Lesson 01- Session Hijacking Concepts
- Lesson 02- Application Level Session Hijacking
- Lesson 03- Network Level Session Hijacking
- Lesson 04- Session Hijacking Tools
- Lesson 05- Countermeasures
- Lesson 06- Penetration Testing

## Module 12 - Evading IDS, Firewalls & Honeypots

- Lesson 01- IDS, Firewall, and Honeypot Concepts
- Lesson 02- IDS, Firewall, and Honeypot Solutions
- Lesson 03- Evading IDS
- Lesson 04- Evading Firewalls
- Lesson 05- IDS/Firewall Evading Tools
- Lesson 06- Detecting Honeypots
- Lesson 07- IDS/Firewall Evasion Countermeasures
- Lesson 08- Penetration Testing

## Module 13- Hacking Web Servers

- Lesson 01- Web Server Concepts
- Lesson 02- Web Server Attacks
- Lesson 03- Web Server Attack Methodology
- Lesson 04- Web Server Attack Tools
- Lesson 05- Countermeasures
- Lesson 06- Patch Management
- Lesson 07- Web Server Security Tools
- Lesson 08- Web Server Pen Testing

## Module 14- Hacking Web Applications

- Lesson 01 - Web App Concepts
- Lesson 02 - Web App Threats
- Lesson 03 - Hacking Methodology
- Lesson 04 - Web Application Hacking Tools
- Lesson 05 - Countermeasures
- Lesson 06 - Web App Security Testing Tools
- Lesson 07 - Web App Pen Testing

## Module 15- SQL Injection

- Lesson 01 - SQL Injection Concepts
- Lesson 02 - Types of SQL Injection
- Lesson 03 - SQL Injection Methodology
- Lesson 04 - SQL Injection Tools
- Lesson 05 - Evasion Techniques
- Lesson 06 - Countermeasures

## Module 16- Hacking Wireless Networks

- Lesson 01 - Wireless Concepts
- Lesson 02 - Wireless Encryption
- Lesson 03 - Wireless Threats
- Lesson 04 - Wireless Hacking Methodology
- Lesson 05 - Wireless Hacking Tools
- Lesson 06 - Bluetooth Hacking
- Lesson 07 - Countermeasures
- Lesson 08 - Wireless Security Tools
- Lesson 09 - Wi-Fi Pen Testing

## Module 17- Hacking Mobile Platforms

- Lesson 01- Mobile Platform Attack Vectors
- Lesson 02- Hacking Android OS
- Lesson 03- Hacking iOS
- Lesson 04- Mobile Spyware
- Lesson 05- Mobile Device Management
- Lesson 06- Mobile Security Guidelines and Tools
- Lesson 07- Mobile Pen Testing

## Module 18- IoT Hacking

- Lesson 01- IoT Concepts
- Lesson 02- IoT Attacks
- Lesson 03- IoT Hacking Methodology
- Lesson 04- IoT Hacking Tools
- Lesson 05- Countermeasures
- Lesson 06- IoT Pen Testing



## Module 19- Cloud Computing

- Lesson 01 - Cloud Computing Concepts
- Lesson 02 - Cloud Computing Threats
- Lesson 03 - Cloud Computing Attacks
- Lesson 04 - Cloud Security
- Lesson 05 - Cloud Security Tools
- Lesson 06 - Cloud Penetration Testing

## Module 20- Cryptography

- Lesson 01- Cryptography Concepts
- Lesson 02- Encryption Algorithms
- Lesson 03- Cryptography Tools
- Lesson 04- Public Key Infrastructure (PKI)
- Lesson 05- Email Encryption
- Lesson 06- Disk Encryption
- Lesson 07- Cryptanalysis
- Lesson 08- Countermeasures



# OUR PLACEMENT PARTNERS



Learning



Opportunity



Experience



Career

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