SH1ELD TECH
INFOSEC SOLUTIONS

Cyber Security · Digital Infrastructure · Education & Innovation

SH1ELD CERTIFIED ETHICAL HACKER (SCEH)

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C|EH ™
Certified | Ethical Hacker
v10

INTRODUCTION

Information Technology plays a very integral and crucial role in our lives. In these times, Cyber Security has been a major concern because any kind of interfernce can cause immense loss to infrastructure, therefore implementation of cyber security through services, required skillset and cyber training in businesses, organisations, government and all other sectors has become a mandatory requirement as an safety standard.

ABOUT SH1ELD Tech

SH1ELD Tech is a Cyber Security and Digital Infrastructure Startup based in Sikkim. It is Sikkim's First Security Services and Cyber Security Training company which offers courses that is prepared by professionals and experts.
Cyber Security Services for digital infrastructures are also very important for small sized businesses to large scale organisations and government infrastructures.

OUR VISION AND MISSION

SH1ELD Tech has defined its primary vision as a collaborative environment of people contributing to cyber space and providing an effective and efficient educational platform to create skilled workforce through transformative initiatives for young and talented aspirants of India to represent the nation at global scale in cyber security.

FIRST CYBER SECURITY CENTRE IN SIKKIM

ETHICAL HACKING TRAINING

Introduction and Importance of Ethical Hacking

Ethical Hacking is a trusted and reputed Cyber Security Training Program that any Information Technology and Information Security Professional must have. Since the growth of cyber related activities around the globe, that had immense impact on organisation, businesses and government, required skillset of ethical hacking has been an effective mechanism to counter activities like- Cybercrimes, Cyberattacks, Cyberwar etc. Companies, Businesses and Governments have continously encouraged this specific skillet as it is highly demanded in every sector and is the best carrer oriented path to build a bright future in IT and Cyber Security. Cyber Security Skillset is more than finding loopholes and weakness in systems. The major benefits are fighting against Cyber Terrorism and also to prevent National Security Breaches.

Course Description

SH1ELD Ethical Hacking Training is a Cyber Security Program. The training is an educational skillset, wherein we teach our candidates how hackers and cyber criminals carefully analyse the target's digital infrastructure and break into their system, network, infrastructre by exploting the vulnerabilities of security architecture. This basically gives an individual the "hacker mindset" and the working mechanism of hacking. Then the candidates are trained on tools and techniques of performing these hacks, by hacking it! To make them effective in penetration testing by constantly exposing to digital infrastructure and networks and asses and analyse the loopholes and vulnerabilities in the security architecture before the hacker does and expoits it.

Target Audience

This course can be attended by IT Professionals, Network Administrators, Server Administrators, Security Auditors, Corporate Employees, Students, IT Trainer and Teachers and anyone who is passionate about cyber security and wants to step into the field of cyber security as a beginner, or to start their career in cyber security.

Pre-requisites and Eligibility Criteria

- Basic understanding of Computers, Internet and Technology.
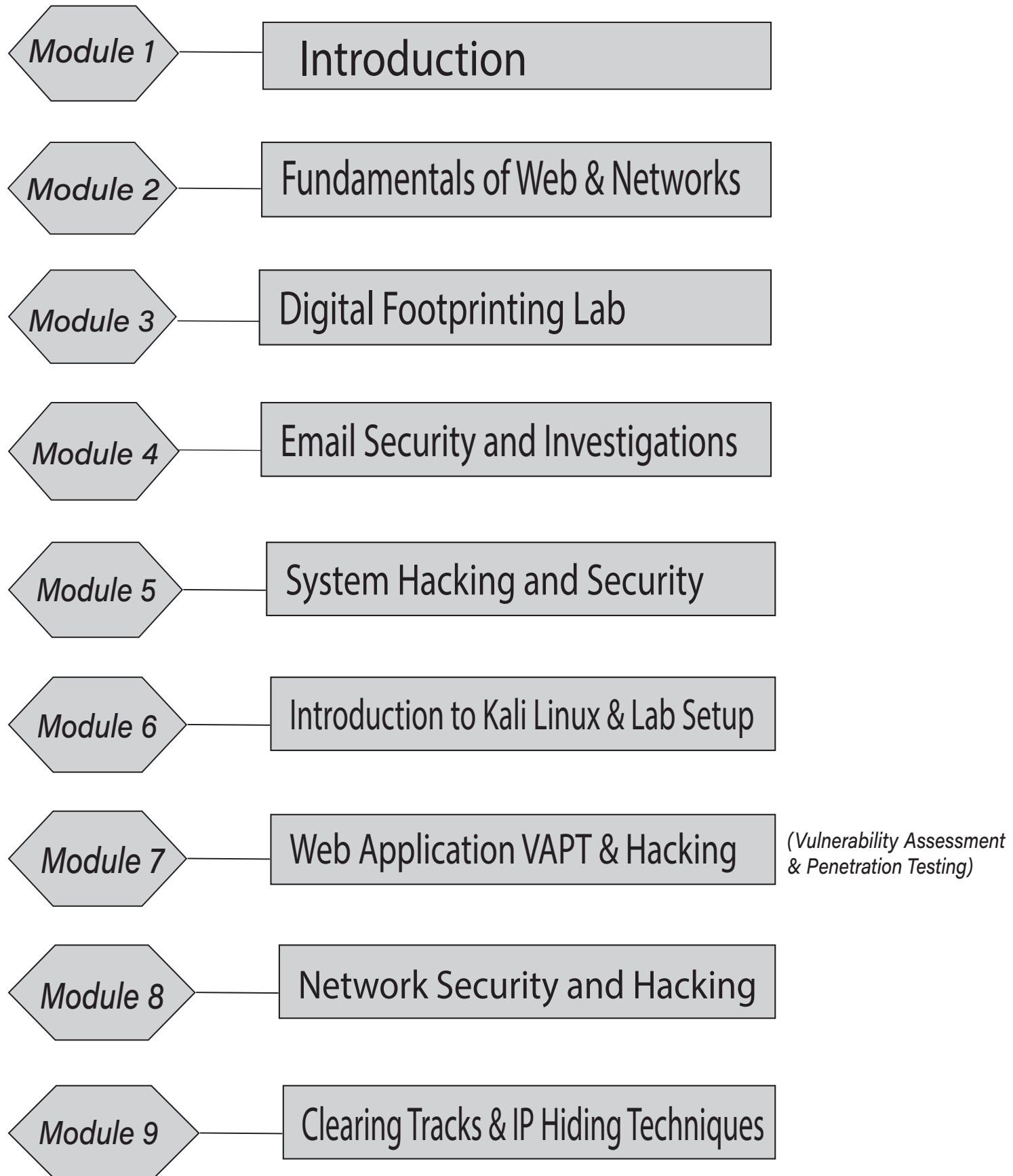
- 10+2 Qualification.
   * CBSE / ICSE / State Board

Course Delivery Method

Method	Duration	No. of Days	Parctical:Theory
SH1ELD Cyber Institute (Mon-Fri) (Sat,Sun) *Flexible batches as per convinience available	2-4 hrs 4-6 hrs	30 Days *may vary depending on batches	6:4

SH1ELD Ethical Hacking Course Modules

Module 1 — Introduction

Module 2 — Fundamentals of Web & Networks

Module 3 — Digital Footprinting Lab

Module 4 — Email Security and Investigations

Module 5 — System Hacking and Security

Module 6 — Introduction to Kali Linux & Lab Setup

Module 7 — Web Application VAPT & Hacking *(Vulnerability Assessment & Penetration Testing)*

Module 8 — Network Security and Hacking

Module 9 — Clearing Tracks & IP Hiding Techniques

Introduction

- Introduction to Cyber Security and Ethical Hacking
- Overview and History of Hacking
- Ethical and Moral values
- Types of Hacking
- IT Act and Cyber Laws
- India Cyber Space and major challenges

Fundamentals of Web and Networks

- Networks
- IP Address
- Web Technologies
- Internet
- HTML Basics
- Digital Infrastructure

Digital Footprinting Lab

- Live target creation
- Information gathering
- Who is information-(www.who.is)
- Web Server Details
- Reverse IP Mapping
- Peoplesearch
- Tools to perform Digital Footprinting

Email Security and Investigations

- Phishing Attack - Desktop and Spear Phishing
- IDN Homograph Attack
- Social Engineering
- Fake emails
- Identify Fake Emails
- Key loggers
- Advance Phishing Techniques
- SMS Bombing
- Social Engineering Attacks- SET

System Hacking and Security

- OS Login Bypass / Introduction to Authentication Mechanism
- Tools to evade authentication
- Malware illustration by MSF venom
- Hacking in to CCTV
- Exploitation tools
- Evade Antivirus and Firewall (fud)
- Hacking Windows Systems with Trojan Virus & Virus Analysis

Introduction to Kali Linux and Lab Setup

- Installation and the Setting up Environment
- Overview of Linux Kernel and its Operations
- Utilization of an Offensive and Defensive Environment
- VMWare Installation
- Operating Systems Installations
- Bridging and Networking VM Machines

Web Application VAPT and Hacking
(Vulnerability Assessment and Penetration Testing)

- XAMPP, DVWA , Metasploitable series
- Hackerone CTF-XSS SQLi Security Misconfig
- Arbitrary File Upload
- Web server rooting
- Union Based SQL Injection
- Blind SQL Injection
- LFI/RFI
- Web Application Firewall Bypassing
- IDS firewalls, honeypots networks analysis
- Hacking Websites Using Automated Tools
- Websites Admin Panel bypass
- Website Defacement
- Mass deface, File Uploading and Shelling the web
- Cross Site Scripting (XSS)
- Understanding DoS & DDoS Attacks
- DDoS Botnet via Webabuse

Network Security and Hacking

- Security Architecture of Networks
- Wireless Penetration Testing
    - Cracking WEP, WPA, WPA2
    - Aireplay-ng, Aircrack-ng and related Frameworks
    - Fake Authentication
    - DeAuthetication
    - Sniffing and Spoofing
    - Hidden Networks and SSIDs
    - WIFI Hacking
    - Gaining Access
    - MITM Attack (Man In The Middle)
    - DoS and DDoS (Denial of Service) Attacks
- ARP Poisioning
- Attacks arp replay attack
- SSL Stripping
- Thehackingsage

Clearing Tracks and IP Hiding Techniques

- Using Web Proxy Servers
- Virtual Private Networks
- IP Hiding Techniques

For registration of **"SH1ELD Certified Ethical Hacker (SCEH)"** course and **"Cyber Security Summer Internship",** candidates can apply through website, for any other queries/information you you can call or watsapp.

Website: **https://www.sh1eldtech.com**
Contact: **9547250772, 8288844004, 8727935915**
Mail us: **sh1eldtech011@gmail.com, training@sh1eldtech.com**

The content mentioned above have been designed by Industry Professionals with careful analysis and as per the required cyber experts in this domain.