



STUDENTS INDUSTRIAL WORK EXPERIENCE SCHEME
SIWES



**ROLASOFT PROFESSIONAL COMPUTER & IT
COURSES VERSION 2.0 LATEST**

**SIWES Diploma in Certified
Ethical Hacker (CEH)**

Become a job-ready CEH in 3-6 months!

Benefits of Studying with RolaSoft

✓ 1. Industry-Relevant Curriculum

Stay ahead with a syllabus designed by industry experts, focused on real-world Certified Ethical Hacker.

✓ 2. Hands-On Training

Learn by doing — build real-time projects, full-scale Certified Ethical Hacker.

✓ 3. Experienced Instructors

Gain insights from certified professionals and senior certified ethical hacker with years of teaching and industry experience.

✓ 4. Placement Assistance

Access job support services including resume building, mock interviews, and direct placement opportunities with partner companies.

✓ 5. Flexible Learning Modes

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

Benefits of Studying with RolaSoft

✓ 6. Mini & Major Projects

Work on individual and group projects to strengthen your portfolio and impress future employers.

✓ 7. Certification Upon Completion

Earn a **Diploma Certificate** from **RolaSoft Technologies**, recognized by IT recruiters and employers.

✓ 8. Small Batch Size

Personalized attention and better interaction in small groups for an enhanced learning experience.

✓ 9. Affordable Fees & Installment Plans

Top-tier training at a reasonable cost, with flexible payment options.

✓ 10. Career-Oriented Skills You'll Gain at RolaSoft Technologies

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

SIWES Overview

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SIWES (Student Industrial Work Experience Scheme) is a structured industrial training program designed for students in Nigerian tertiary institutions studying science, engineering, technology, and other professional courses. It is coordinated by the **Industrial Training Fund (ITF)** and serves as a bridge between academic knowledge and practical industry experience.

Typically conducted for a duration of **3–6 months**, SIWES places students in real work environments related to their field of study. During this period, they apply classroom theory to practical tasks and gain firsthand understanding of workplace expectations and professional practices.

Advantages of SIWES to Students

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Hands-On Experience: Provides real-world exposure and practical knowledge in the student's field.

Bridging the Skills Gap: Helps students connect academic theories with industry practices.

Career Readiness: Prepares students for post-graduate employment by developing technical and soft skills.

Professional Networking: Offers opportunities to build relationships with industry professionals.

Improved Employability: Enhances resumes/CVs with relevant work experience that employers value.

Understanding of Workplace Culture: Teaches students workplace ethics, teamwork, and communication.

Opportunity for Future Placement: Sometimes leads to job offers or future internships with the same organization.

SIWES Certified Ethical Hacker Course Details



Duration

Three-Six (3-6) Months



Schedule

Weekdays / Weekends



Learning Modes

Online, Offline (at our center), or Hybrid Classes



Start Date

New batches start every month — enroll now!



Eligibility

No prior experience required

SIWES Certified Ethical Hacker – Program Details

Program Overview

The **CEH (Certified Ethical Hacker)** course teaches students how to think and act like a hacker—ethically. It equips learners with the tools, techniques, and mindset needed to identify, exploit, and fix vulnerabilities in computer systems, networks, and applications.

This course is mapped to the **EC-Council's CEH v13** certification and includes practical labs and simulated attack environments.

SIWES Certified Ethical Hacker - Target Audience & Prerequisites

Target Audience:

- ✓ Intermediate-level IT and cybersecurity students or professionals, especially for SIWES or internships students.

Prerequisites:

- ✓ Solid understanding of networking and operating systems (CompTIA Security+ or equivalent is recommended), Experience with Linux/Windows environments.

SIWES Certified Ethical Hacker Course Curriculum

Module 1: Introduction to Ethical Hacking

- ✓ Understanding ethical hacking
- ✓ Hacker types and motivations
- ✓ Legal and regulatory frameworks
- ✓ Penetration testing lifecycle

SIWES Certified Ethical Hacker Course Curriculum

Module 2: Footprinting and Reconnaissance

- ✓ Information gathering techniques (passive & active)
- ✓ Tools: Whois, nslookup, Nmap, Maltego
- ✓ DNS enumeration and social engineering basics

SIWES Certified Ethical Hacker Course Curriculum

Module 3: Scanning Networks

- ✓ Network scanning and vulnerability discovery
- ✓ Port scanning and banner grabbing
- ✓ Tools: Nmap, Angry IP Scanner, Netcat

SIWES Certified Ethical Hacker Course Curriculum

Module 4: Enumeration

- ✓ Extracting network resources
- ✓ Windows and Linux enumeration
- ✓ NetBIOS and SNMP enumeration
- ✓ User and group enumeration techniques

SIWES Certified Ethical Hacker Course Curriculum

Module 5: Vulnerability Analysis

- ✓ Vulnerability assessment vs. penetration testing
- ✓ CVE, CVSS scoring, and database navigation
- ✓ Tools: Nessus, OpenVAS, Nexpose

SIWES Certified Ethical Hacker Course Curriculum

Module 6: System Hacking

- ✓ Gaining, maintaining, and escalating access
- ✓ Password cracking and privilege escalation
- ✓ Rootkits and keyloggers
- ✓ Clearing logs and covering tracks

SIWES Certified Ethical Hacker Course Curriculum

Module 7: Malware Threats

- ✓ Types of malware: viruses, worms, trojans, spyware
- ✓ Analyzing payloads
- ✓ Detection and evasion techniques
- ✓ Malware analysis tools

SIWES Certified Ethical Hacker Course Curriculum

Module 8: Sniffing and Spoofing

- ✓ Packet sniffing tools: Wireshark, tcpdump
- ✓ ARP spoofing, MAC spoofing
- ✓ Defenses against sniffing attacks

SIWES Certified Ethical Hacker Course Curriculum

Module 9: Social Engineering

- ✓ Human-based attacks: phishing, baiting, tailgating
- ✓ Email and voice-based attacks
- ✓ Countermeasures and awareness programs

SIWES Certified Ethical Hacker Course Curriculum

Module 10: Denial-of-Service (DoS)

- ✓ Types of DoS/DDoS attacks
- ✓ Botnets and amplification attacks
- ✓ Detection and mitigation tools

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Module 11: Session Hijacking

- ✓ Session hijacking techniques
- ✓ TCP/IP and application-level attacks
- ✓ Defense mechanisms

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Module 12: Web Application Hacking

- ✓ OWASP Top 10 vulnerabilities
- ✓ SQL injection, XSS, CSRF
- ✓ Tools: Burp Suite, OWASP ZAP

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Module 13: Wireless Network Hacking

- ✓ Wireless encryption attacks (WEP/WPA/WPA2)
- ✓ Evil twin, rogue AP, and sniffing Wi-Fi traffic
- ✓ Wireless security tools (Aircrack-ng, Kismet)

SIWES Certified Ethical Hacker Course Curriculum

Module 14: Mobile and IoT Hacking

- ✓ Android and iOS attack vectors
- ✓ IoT device vulnerabilities
- ✓ Mobile security best practices

SIWES Certified Ethical Hacker Course Curriculum

Module 15: Cloud and Cryptography

- ✓ Cloud computing threats and attacks
- ✓ Cryptographic algorithms and implementation flaws
- ✓ SSL/TLS, VPNs, and secure communication

SIWES Certified Ethical Hacker Course Curriculum

Module 16: Penetration Testing and Reporting

- ✓ Setting up a lab and pentest environment
- ✓ Report writing and remediation suggestions

SIWES Final Capstone Project (End of 3-6 Months)

Students will complete an **industry-level project**:

- ✓ Setting up a lab and pentest environment

SIWES Certified Ethical Hacker - Certification Obtain

After completion of the program, the student will be awarded with a certificate:

SIWES Diploma in Certified Ethical Hacker (CEH)

SIWES Certified Ethical Hacker - Roles After Completion

Graduates of this course can pursue the following roles:

- ✓ **Ethical Hacker:** Conducts authorized tests to identify system vulnerabilities.
- ✓ **Penetration Tester:** Simulates cyberattacks to test network defenses and system security.
- ✓ **Information Security Analyst:** Monitors networks for security breaches and implements defenses.
- ✓ **Security Consultant:** Advises organizations on risk mitigation and secure architecture.
- ✓ **SOC Analyst (Tier 2/3):** Investigates advanced threats and escalated incidents in a Security Operations Center.
- ✓ **Red Team Operator:** Performs offensive security tests to simulate attacker behavior.
- ✓ **Vulnerability Analyst:** Detects and assesses system flaws using scanning and manual techniques.

Rolasoft Technologies Services

Rolasoft Technologies – Services Offered

✓ **SOFTWARE DEVELOPMENT COMPANY**

(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

✓ **PROFESSIONAL COMPUTER AND IT EDUCATION**

(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

✓ **DIGITAL ADVERTISING AND BUSINESS BRANDING**

(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

✓ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**

(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

Contact & Registration

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 **Enroll Today & Start Your Certified Ethical Hacker Journey!**

Shape your future with SIWES Certified Ethical Hacker