RolaSoft Technologies. Limited

ROLASOFT PROFESSIONAL COMPUTER & IT COURSES VERSION 2.0 LATEST

Diploma in Certified Ethical Hacker (CEH)

Become a job-ready Certified Ethical Hacker in 6 months!

Benefits of Studying Diploma in CEH with RolaSoft

✅ **1. Industry-Relevant Curriculum**

Stay ahead with a syllabus designed by industry experts, focused on real-world applications of CEH.

✅ **2. Hands-On Training**

Learn by doing — build real-time projects, full-scale ethical hacking engagement.

✅ **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 Diploma in CEH 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.

Diploma in Certified Ethical Hacker (CEH) Course Details

- ✅ **Duration**
  Six (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

Diploma in Certified Ethical Hacker (CEH) Prerequisites

- ✅ Basic knowledge of networking (TCP/IP, DNS, HTTP, etc.)
- ✅ Familiarity with operating systems (Windows, Linux)
- ✅ Understanding of programming (Python, Bash scripting is helpful but not required)

Diploma in Certified Ethical Hacker (CEH) – Program Details

Program Overview

The **Certified Ethical Hacker (CEH)** course at ***Rolasoft Technologies*** is a 6-month program designed to prepare students for a career in ethical hacking and penetration testing. CEH is one of the most recognized certifications in cybersecurity and is perfect for individuals looking to enter the cybersecurity industry.

This course will cover the key concepts, tools, and techniques involved in ethical hacking, including vulnerability assessment, penetration testing, network security, and more. Students will gain hands-on experience in exploiting vulnerabilities, securing networks, and protecting systems against malicious attacks.

Throughout the program, students will work on practical lab exercises and real-world scenarios to develop their skills in penetration testing, vulnerability scanning, and ethical hacking tools, such as **Metasploit**, **Nmap**, **Wireshark**, **Burp Suite**, and more.

By the end of the course, students will be equipped to pass the **CEH exam** and pursue careers as **Ethical Hackers**, **Penetration Testers**, or **Cybersecurity Analysts**.

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 1: Introduction to Ethical Hacking and Networking

✅ **Introduction to Ethical Hacking**

(Understanding the role of ethical hacking in cybersecurity, Key concepts in hacking: White-hat vs Black-hat vs Grey-hat, Types of hacking attacks and their impact, The ethical hacker's code of conduct)

✅ **Networking Fundamentals**

(Overview of computer networks: OSI model, TCP/IP, routing, and switching, Understanding network protocols (HTTP, FTP, DNS, TCP, UDP, ICMP), Tools for network analysis (Wireshark, Netcat), Introduction to network topologies and devices)

✅ **Setting Up a Lab**

(Setting up a virtual machine (VM) environment for ethical hacking practice, Installing Kali Linux, Metasploit, and other hacking tools, Basic Linux commands and system administration for ethical hackers)

✅ **Hands-On:** Set up and configure a basic hacking lab environment using VirtualBox and Kali Linux

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 2: Reconnaissance and Footprinting

✅ **Footprinting and Information Gathering**
(Types of footprinting (active vs passive), Techniques for gathering information about a target (WHOIS, DNS, social engineering), Using tools like Nmap, Netdiscover, and Recon-ng for scanning networks, Information gathering through websites and social media platforms)

✅ **Scanning Networks**
(Network mapping and scanning techniques, Using Nmap for port scanning and service identification, OS fingerprinting and service version detection, Vulnerability scanning and identifying weak points in network security)

✅ **Hands-On:** Conduct passive and active reconnaissance on a target network

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 3: System Hacking and Malware Threats

✅ **System Hacking**
(Identifying and exploiting system vulnerabilities, Techniques for password cracking (Brute Force, Dictionary, Rainbow Tables), Exploiting operating system vulnerabilities (Windows, Linux), Privilege escalation and maintaining access)

✅ **Malware Threats and Analysis**
(Types of malware: Viruses, worms, Trojans, ransomware, spyware, rootkits, Analyzing malware behavior and identifying malicious code, Using sandboxes and reverse engineering to analyze malware, Techniques to defend against malware attacks)

✅ **Hands-On:** Crack passwords using **John the Ripper** and simulate malware infection on a vulnerable system

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 4: Wireless Networks and Web Application Hacking

✅ **Wireless Network Hacking**
(Overview of wireless networking protocols (WEP, WPA, WPA2), Attacking wireless networks using Aircrack-ng and Reaver, Decrypting WEP and WPA2 passwords, Preventing wireless network attacks)

✅ **Web Application Hacking**
(Understanding web application security risks, Common vulnerabilities in web applications (SQL Injection, Cross-Site Scripting (XSS), Cross-Site Request Forgery (CSRF)), Tools for web application testing (Burp Suite, OWASP ZAP), Exploiting vulnerabilities in web applications and mitigating attacks)

✅ **Hands-On:** Conduct a web application penetration test using **Burp Suite** and exploit SQL injection vulnerabilities

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 5: Vulnerability Assessment and Penetration Testing

✅ **Vulnerability Assessment**
(Introduction to vulnerability scanning and assessment tools (Nessus, OpenVAS), Analyzing vulnerabilities and generating reports, Identifying security misconfigurations and weak points in infrastructure)

✅ **Penetration Testing Process**
(Overview of the penetration testing lifecycle: Planning, scanning, exploitation, post-exploitation, reporting, Legal and ethical considerations in penetration testing, Writing penetration testing reports and documentation)

✅ **Hands-On:** Perform a full vulnerability scan on a target system using **Nessus** and document findings

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

✅ **Penetration Testing Tools**
(Hands-on practice with tools like Metasploit, Burp Suite, and Nikto, Testing for buffer overflow vulnerabilities and exploiting them, Post-exploitation techniques and evidence gathering)

✅ **Hands-On:** Conduct a penetration test on a vulnerable network and document your findings

Diploma in Certified Ethical Hacker (CEH) Course Curriculum

Month 6: Final Project and Exam Preparation

✅ **Final Project**

(Conduct a full-scale ethical hacking engagement on a simulated network or web application, Use all tools and techniques learned to identify vulnerabilities, exploit them, and prepare a comprehensive report, Present your findings and recommendations for securing the system)

✅ **Exam Preparation**

(Review all topics covered during the course, Practice sample questions and case studies from the CEH exam, Key exam strategies: Time management, question analysis, and answer review)

✅ **Career Preparation**

(Resume building and interview preparation for ethical hacking roles, Overview of ethical hacking certifications and career opportunities in cybersecurity, Networking with industry professionals and joining cybersecurity communities)

✅ **Hands-On:** Final project presentation and feedback from instructors

Diploma in Certified Ethical Hacker (CEH) Curriculum

✅ **Capstone Project:** Conduct a full-scale ethical hacking engagement on a simulated network or web application. Use all tools and techniques learned to identify vulnerabilities, exploit them, and prepare a comprehensive report

✅ Final Presentation and Review

Tools & Technologies Used

Tools & Technologies Used for Certified Ethical Hacker Course are:

✅ Penetration Testing Tools: Metasploit, Burp Suite, Nikto, Nmap, Wireshark, John the Ripper, Hydra

✅ Vulnerability Scanning Tools: Nessus, OpenVAS, Qualys

✅ Malware Analysis Tools: IDA Pro, OllyDbg, Cuckoo Sandbox

✅ Wireless Tools: Aircrack-ng, Reaver, Kismet

✅ Web Application Testing Tools: OWASP ZAP, Burp Suite

✅ Operating Systems: Kali Linux, BackBox Linux, Parrot Security OS

Final Capstone Project (End of 6 Months)

Students will complete an **industry-level project** in **Certified Ethical Hacker** :

✅ Conduct a full-scale ethical hacking engagement on a simulated network or web application. Use all tools and techniques learned to identify vulnerabilities, exploit them, and prepare a comprehensive report.

Certified Ethical Hacker (CEH) Learning Outcomes

By the end of this course, students will be able to:

✅ Understand the core principles and methodologies of ethical hacking and penetration testing

✅ Identify and exploit vulnerabilities in systems, networks, and web applications

✅ Use popular ethical hacking tools for vulnerability assessment, scanning, and exploitation

✅ Perform penetration testing on networks, systems, and web applications

✅ Write comprehensive reports on penetration testing findings and provide remediation strategies

✅ Pursue careers as **Ethical Hackers**, **Penetration Testers**, **Security Analysts**, and **Cybersecurity Consultants**

Certification Obtain

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

Diploma in Certified Ethical Hacker (CEH)

The program also prepares students for industry certifications such as:

- ✅ **CEH v12**. - 312-50 (V12 as of latest version)
- ✅ **ECIH** – Certified Incident Handler
- ✅ **CHFI** – Computer Hacking Forensic Investigator
- ✅ **CPENT** – Certified Penetration Testing Professional
- ✅ **LPT (Master)** – Licensed Penetration Tester

Certified Ethical Hacker (CEH) Career Opportunities

- ✅ Ethical Hackers
- ✅ Penetration Testers
- ✅ Security Analysts
- ✅ Cybersecurity Consultants
- ✅ SOC Analyst

Who Should Take This **Certified Ethical Hacker (CEH)?**

Who Should Take This **Certified Ethical Hacker (CEH) ?**

- ✅ **IT professionals** and **network administrators** interested in cybersecurity
- ✅ **Security analysts** looking to advance their skills in ethical hacking
- ✅ **Students** pursuing a career in ethical hacking and penetration testing
- ✅ **Cybersecurity enthusiasts** who want to understand hacking methodologies and tools
- ✅ **Professionals** in IT or network security who want to specialize in ethical hacking
- ✅ **Government** and **corporate employees** looking to improve their security posture

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)

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Enroll Today & Start Your Certified Ethical Hacker (CEH) Journey!

Shape your future with Certified Ethical Hacker.