

EC-Council Computer Hacking Forensic Investigator (CHFI) + Exam voucher

Duration: 5 Days Course Code: CHFI Version: 10 Delivery Method: Company Event

Overview:

Computer forensics is simply the application of computer investigation and analysis techniques in the interests of determining potential legal evidence. Evidence might be sought in a wide range of computer crime or misuse, including but not limited to theft of trade secrets, theft of or destruction of intellectual property, and fraud. CHFI investigators can draw on an array of methods for discovering data that resides in a computer system, or recovering deleted, encrypted, or damaged file information known as computer data recovery.

EC-Council's Certified Hacking Forensic Investigator (CHFI) is the only comprehensive ANSI accredited, lab-focused program in the market that gives organizations vendor-neutral training in digital forensics. CHFI provides its attendees with a firm grasp of digital forensics, presenting a detailed and methodological approach to digital forensics and evidence analysis that also pivots around Dark Web, IoT, and Cloud Forensics. The tools and techniques covered in this program will prepare the learner for conducting digital investigations using ground-breaking digital forensics technologies.

The program is designed for IT professionals involved with information system security, computer forensics, and incident response. It will help fortify the application knowledge in digital forensics for forensic analysts, cybercrime investigators, cyber defense forensic analysts, incident responders, information technology auditors, malware analysts, security consultants, and chief security officers.

The program equips candidates with the necessary skills to proactively investigate complex security threats, allowing them to investigate, record, and report cybercrimes to prevent future attacks.

Please note an exam voucher is included with this course

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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Target Audience:

The CHFI program is designed for all IT professionals involved with information system security, computer forensics, and incident response. Individuals in industries such as Banking, Defense and Law Enforcement.

Objectives:

■ After completing this course you should be able to:

■ Perform electronic evidence collections

■ Perform digital forensic acquisitions

■ Conduct thorough examinations of computer hard disk drives and other electronic data storage media

■ Utilise forensic tools and investigative methods to find electronic data, including Internet use history, word processing documents, images and other files

■ Perform anti-forensics detection

■ Apply advanced forensic tools and techniques for attack reconstruction

Prerequisites:

Attendees should meet the following prerequisites:

- IT/forensics professionals with basic knowledge on IT/cyber security, computer forensics, and incident response
- Prior completion of Certified Ethical Hacker (CEH) training would be an advantage

Testing and Certification

Recommended as preparation for the following exams:

- ECO 312-49 - CHFI Exam

Content:

Computer Forensics in Today's World

- Understand the Fundamentals of Computer Forensics
- Understand Cybercrimes and their Investigation Procedures
- Understand Digital Evidence
- Understand Forensic Readiness, Incident Response and the Role of SOC (Security Operations Center) in Computer Forensics
- Identify the Roles and Responsibilities of a Forensic Investigator
- Understand the Challenges Faced in Investigating Cybercrimes
- Understand Legal Compliance in Computer Forensics

Computer Forensics Investigation Process

- Understand the Forensic Investigation Process and its Importance
- Understand the Pre-investigation Phase
- Understand First Response
- Understand the Investigation Phase
- Understand the Post-investigation Phase

Understanding Hard Disks and File Systems

- Describe Different Types of Disk Drives and their Characteristics
- Explain the Logical Structure of a Disk
- Understand Booting Process of Windows, Linux and Mac Operating Systems
- Understand Various File Systems of Windows, Linux and Mac Operating Systems
- Examine File System Using Autopsy and The Sleuth Kit Tools
- Understand Storage Systems
- Understand Encoding Standards and Hex Editors
- Analyze Popular File Formats Using Hex Editor

Data Acquisition and Duplication

- Understand Data Acquisition Fundamentals
- Understand Data Acquisition Methodology
- Prepare an Image File for Examination

Defeating Anti-forensics Techniques

- Understand Anti-forensics Techniques
- Discuss Data Deletion and Recycle Bin Forensics
- Illustrate File Carving Techniques and Ways to Recover Evidence from Deleted Partitions
- Explore Password Cracking/Bypassing Techniques
- Detect Steganography, Hidden Data in File System Structures, Trail Obfuscation, and File Extension Mismatch
- Understand Techniques of Artifact Wiping,

Linux and Mac Forensics

- Understand Volatile and Non-volatile Data in Linux
- Analyze Filesystem Images Using The Sleuth Kit
- Demonstrate Memory Forensics Using Volatility ; PhotoRec
- Understand Mac Forensics

Network Forensics

- Understand Network Forensics
- Explain Logging Fundamentals and Network Forensic Readiness
- Summarize Event Correlation Concepts
- Identify Indicators of Compromise (IoCs) from Network Logs
- Investigate Network Traffic
- Perform Incident Detection and Examination with SIEM Tools
- Monitor and Detect Wireless Network Attacks

Investigating Web Attacks

- Understand Web Application Forensics
- Understand Internet Information Services (IIS) Logs
- Understand Apache Web Server Logs
- Understand the Functionality of Intrusion Detection System (IDS)
- Understand the Functionality of Web Application Firewall (WAF)
- Investigate Web Attacks on Windows-based Servers
- Detect and Investigate Various Attacks on Web Applications

Dark Web Forensics

- Understand the Dark Web
- Determine How to Identify the Traces of Tor Browser during Investigation
- Perform Tor Browser Forensics

Database Forensics

- Understand Database Forensics and its Importance
- Determine Data Storage and Database Evidence Repositories in MSSQL Server
- Collect Evidence Files on MSSQL Server
- Perform MSSQL Forensics
- Understand Internal Architecture of MySQL and Structure of Data Directory
- Understand Information Schema and List MySQL Utilities for Performing Forensic Analysis
- Perform MySQL Forensics on WordPress Web Application Database

Cloud Forensics

Investigating Email Crimes

- Understand Email Basics
- Understand Email Crime Investigation and its Steps
- U.S. Laws Against Email Crime

Malware Forensics

- Define Malware and Identify the Common Techniques Attackers Use to Spread Malware
- Understand Malware Forensics Fundamentals and Recognize Types of Malware Analysis
- Understand and Perform Static Analysis of Malware
- Analyze Suspicious Word and PDF Documents
- Understand Dynamic Malware Analysis Fundamentals and Approaches
- Analyze Malware Behavior on System Properties in Real-time
- Analyze Malware Behavior on Network in Real-time
- Describe Fileless Malware Attacks and How they Happen
- Perform Fileless Malware Analysis - Emotet

Mobile Forensics

- Understand the Importance of Mobile Device Forensics
- Illustrate Architectural Layers and Boot Processes of Android and iOS Devices
- Explain the Steps Involved in Mobile Forensics Process
- Investigate Cellular Network Data
- Understand SIM File System and its Data Acquisition Method
- Illustrate Phone Locks and Discuss Rooting of Android and Jailbreaking of iOS Devices
- Perform Logical Acquisition on Android and iOS Devices
- Perform Physical Acquisition on Android and iOS Devices
- Discuss Mobile Forensics Challenges and Prepare Investigation Report

IOT Forensics

- Understand IoT and IoT Security Problems
- Recognize Different Types of IoT Threats
- Understand IoT Forensics
- Perform Forensics on IoT Devices

Overwritten Data/Metadata Detection, and Encryption	■ Understand the Basic Cloud Computing Concepts
■ Detect Program Packers and Footprint Minimizing Techniques	■ Understand Cloud Forensics
■ Understand Anti-forensics Countermeasures	■ Understand the Fundamentals of Amazon Web Services (AWS)
■ Anti-Forensics techniques	■ Determine How to Investigate Security Incidents in AWS
Windows Forensics	■ Understand the Fundamentals of Microsoft Azure
■ Collect Volatile and Non-volatile Information	■ Determine How to Investigate Security Incidents in Azure
■ Perform Windows Memory and Registry Analysis	■ Understand Forensic Methodologies for Containers and Microservices
■ Examine the Cache, Cookie and History Recorded in Web Browsers	
■ Examine Windows Files and Metadata	
■ Understand ShellBags, LNK Files, and Jump Lists	
■ Understand Text-based Logs and Windows Event Logs	

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/