

## EC-Council Computer Hacking Forensic Investigator (C|HFI) + Exam voucher

Varighed: 5 Days    Kursus Kode: CHFI    Version: 10    Leveringsmetode: Virtuel deltagelse

### Beskrivelse:

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 (CHF) is the only comprehensive ANSI accredited, lab-focused program in the market that gives organizations vendor-neutral training in digital forensics. CHF 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.

**Study Time for this digital course is approx 50-60 hours, hands on interactive labs for 6 months from date of purchase. Please note an exam voucher is included with this course for use within 12 months of purchase**

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

### Målgruppe:

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.

### Agenda:

- **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

### Forudsætninger:

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

### Test og certificering

Recommended as preparation for the following exams:

- **ECO 312-49 - CHFI Exam**



## Indhold:

### 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
- Detect Program Packers and Footprint Minimizing Techniques
- Understand Anti-forensics Countermeasures
- Anti-Forensics techniques

#### Windows Forensics

- Collect Volatile and Non-volatile Information
- Perform Windows Memory and Registry Analysis
- 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

- Understand the Basic Cloud Computing Concepts
- Understand Cloud Forensics
- Understand the Fundamentals of Amazon Web Services (AWS)
- Determine How to Investigate Security Incidents in AWS
- Understand the Fundamentals of Microsoft Azure
- Determine How to Investigate Security Incidents in Azure
- Understand Forensic Methodologies for Containers and Microservices

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### Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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