

# CFI Contents

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## Unit 1: Introduction to cyber forensic

- Forensic Procedures
- History of Computer Forensics
- Forensic Procedure
- What is Cyber Crime?
- Classification of Cyber Crime
- Why to learn Cyber Crime?
- Characteristics and types of Cyber Crime
- Prevention of Cyber Crime

## Unit 2: Computer fundamentals

- Types of OS
- Different kinds of Application
- Types of Storage
- Media Kinds of networking devices
- Understanding storage format
- Network Basic's

## Unit 3: Data Acquisition and Analysis

- Bit-stream imaging
- Acquiring an Image of Evidence Media Determining the Best Acquisition method Write blocker
- Validating the data acquisition
- Performing RAID data acquisition

## Unit 4: Computer Forensic Methodology

- Determining what data to collect and analysis
- Finding the Hidden Partition
- Marking bad clusters Bit shifting Encrypting files
- Recovering passwords
- Tracking the activities (Internet Explorer, etc.)

## Unit 5: Understanding Data Recovery

- Concepts of Data recovery
- Evidence collection procedure from single system
- Evidence collection procedure from Networked system
- Window and DOS system Analysis
- Understanding File system
- Examining NTFS Disks Understanding windows registry
- Microsoft Start-up tasks Understanding Virtual Machines

## Unit 6: Network Forensics

- Overview of Networking
- TCP/IP protocols
- Data Transmission technology
- Sniffing of packets
- Reviewing network logs and other logs
- Examining the Honey pot

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Unit 7: Web server forensics <ul style="list-style-type: none"><li>• Understanding</li><li>• Web server Types of web server attacks Web server logs</li><li>• Analyzing fire wall logs</li></ul>
Unit 8: E-mail Investigation <ul style="list-style-type: none"><li>• Type of Emails</li><li>• Examining Email Messages Tracing an Email Understanding Email Server</li><li>• Analyzing the Email server logs</li></ul>
Unit 9: Mobile Forensics <ul style="list-style-type: none"><li>• Cell phone or Mobile phone Forensics</li><li>• Mobile phone basic Inside a mobile device Inside a PDA</li></ul>
Unit 10: Anti-Forensics <ul style="list-style-type: none"><li>• Techniques Obscurity Methods Encryptions</li><li>• Wiping</li><li>• Clearing the tracks</li></ul>
Unit 11: Chain of custody
Unit 12 :Stenography and cryptography
Unit 13: Report writing and ethics <ul style="list-style-type: none"><li>• Documenting the analysis</li><li>• Expert witness</li><li>• Ethics in the Cyber forensic Investigation.</li><li>• Professional ethics</li></ul>
Unit 14: Cyber Laws
Practical's: Tools explanation's and demo on each topic