

CFI Contents

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