



DIGITAL FORENSICS

ACQUISITION . CHAIN OF CUSTODY
DISK . MEMORY . NETWORK
TIMELINE ANALYSIS . REPORTING

DURATION

50 Hours

LEVEL

**Intermediate to
Advanced**

MODULES

8

MODE

**Classroom ·
Online · Hybrid**

01 COURSE OVERVIEW

A digital forensics course covering evidence acquisition, artefact analysis and reporting fit for review. The course follows evidence from seizure to court-ready report: imaging, hashing, chain of custody, file system and registry analysis, memory forensics, browser and email artefacts, and timeline reconstruction.

All exercises use open-source tooling on prepared disk and memory images.

WHO IT IS FOR

Security analysts and incident responders

Law enforcement and legal support staff

IT administrators handling investigations

Audit and compliance teams

PREREQUISITES

Operating system fundamentals and basic command line.

02 LEARNING OUTCOMES

01 Acquire disk and memory images without altering evidence.

03 Analyse NTFS, FAT and ext file system artefacts.

05 Extract registry, browser and email artefacts.

07 Write a factual report suitable for review.

02 Maintain hashing and chain-of-custody records.

04 Recover deleted and hidden data.

06 Reconstruct a timeline of user and system activity.

01 FORENSIC PRINCIPLES

Evidence types

Chain of custody

Documentation

Order of volatility

Legal admissibility

Anti-forensics awareness

02 ACQUISITION

Write blockers

Memory capture

Hash verification

Disk imaging

Live vs dead acquisition

TOOLS

FTK IMAGER

DD

DUMPIT

03 FILE SYSTEM ANALYSIS

NTFS and MFT

ext4

Slack space

FAT

Metadata

Deleted file recovery

TOOLS

AUTOPSY

SLEUTH KIT

04 WINDOWS ARTEFACTS

Registry hives

Shellbags

USB history

Prefetch

Event logs

LNK files

LAB

USER ACTIVITY RECONSTRUCTION

05 MEMORY FORENSICS

Process lists

Injected code

Malware indicators

Network connections

Credential artefacts

TOOLS

VOLATILITY

06 BROWSER, EMAIL AND MOBILE

Browser history and cache

PST and MBOX

Cloud sync artefacts

Email headers

Mobile extraction overview

07 NETWORK AND LOG FORENSICS

PCAP analysis

Log correlation

Session reconstruction

Time zone handling

TOOLS

WIRESHARK

NETWORKMINER

08 TIMELINE AND REPORTING

Super timelines

Findings vs interpretation

Expert conduct

Correlating artefacts

Report structure

PROJECT

FULL CASE ANALYSIS AND FORENSIC REPORT

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

DIGITAL FORENSICS ANALYST

INCIDENT RESPONSE SPECIALIST

CYBER CRIME INVESTIGATOR

EDISCOVERY ANALYST

SECURITY CONSULTANT

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