Computers and Information Technology · IT466

Digital Forensics – Moblie Phone Investigation

Duration	Category	Ref
2 Weeks	**Computers and Information Technology**	**IT466**
Language	**Certificate**	
English	**Certificate of attendance**	

Introduction

This practical-focused programme provides participants with the knowledge and hands-on skills required to conduct mobile phone forensic investigations. The course covers the identification, preservation, acquisition, examination, analysis and reporting of digital evidence from mobile devices, with particular emphasis on Android and iOS platforms.

The programme combines theoretical concepts with extensive practical exercises, case studies and simulated forensic investigations.

Objectives

By the end of the programme, participants will be able to:

- Understand the principles of mobile phone forensics and digital evidence.
- Apply appropriate procedures for preserving and acquiring mobile evidence.
- Examine Android and iOS devices and forensic datasets.
- Analyse calls, messages, applications, browser activity and media.
- Examine location information and metadata.
- Identify and analyse deleted or recoverable data.
- Reconstruct mobile-device activity and timelines.
- Correlate evidence from multiple sources.
- Prepare professional mobile forensic investigation reports.
- Present and explain forensic findings.

Target Audience

- Digital Forensic Investigators
- Cybercrime Investigators
- Law Enforcement Personnel
- Cybersecurity Professionals
- IT Security Specialists
- Intelligence and Security Personnel
- Fraud Investigators

- Incident Response Professionals
- Corporate Investigators
- Government and Regulatory Investigators

Course Methodology

The programme is designed with a strong practical focus, combining approximately 30% theory and 70% practical training through exercises, forensic datasets, demonstrations, case studies and simulated investigations.

Course Outline

Day 1

Introduction to Mobile Phone Forensics

- Digital forensics principles
- Mobile forensic investigation process
- Mobile device architecture
- Android and iOS overview
- Types and sources of mobile evidence
- Evidence preservation and chain of custody
- Practical introduction to forensic tools and evidence handling

Day 2

Mobile Evidence Acquisition

- Mobile evidence acquisition principles
- Logical, file-system and physical acquisition concepts
- Forensic imaging and data extraction
- Evidence verification and integrity
- Practical mobile acquisition exercises
- Examination of forensic datasets

Day 3

Android & iOS Forensics

- Android forensic artefacts
- iOS forensic artefacts
- Mobile application data
- Databases and file systems
- Backups and extracted data
- Practical Android and iOS forensic examination

Day 4

Mobile Data & Application Analysis

- Call logs, SMS and contacts
- Messaging applications
- Browser and internet activity
- Social media and application artefacts
- Photos, videos and metadata

- Location and GPS evidence
- Practical data analysis and timeline reconstruction

Day 5

Advanced Investigation & Reporting

- Deleted and recoverable data
- Evidence correlation and timeline analysis
- Complete simulated mobile forensic investigation
- Identification and interpretation of key evidence
- Forensic report preparation
- Presentation of findings
- Final practical assessment

Day 6

Advanced Mobile Forensic Examination

- Advanced mobile artefacts
- Application databases
- System and user activity
- Advanced evidence searching
- Practical examination of complex forensic datasets
- Case-based investigation exercise

Day 7

Mobile Communications & Location Investigation

- Advanced communication analysis
- Messaging and application evidence
- Location and geolocation artefacts
- Media and metadata analysis
- Evidence correlation
- Practical investigation scenario

Day 8

Deleted Data & Timeline Reconstruction

- Deleted data and data remnants
- Database and file recovery concepts
- Advanced searching and filtering
- Timeline reconstruction
- Correlating multiple evidence sources
- Practical advanced investigation

Day 9

Complete Mobile Forensic Case

- Investigation planning
- Evidence examination and analysis
- Communications and application analysis
- Media and location analysis

- Timeline development
- Practical end-to-end forensic investigation

Day 10

Reporting & Final Practical Assessment

- Forensic report structure
- Documenting findings and methodology
- Evidence presentation
- Professional and legal considerations
- Final practical case investigation
- Presentation of forensic findings
- Final assessment and course review

Ask us for a date for this course

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