paraben corporation

Digital Investigation Training

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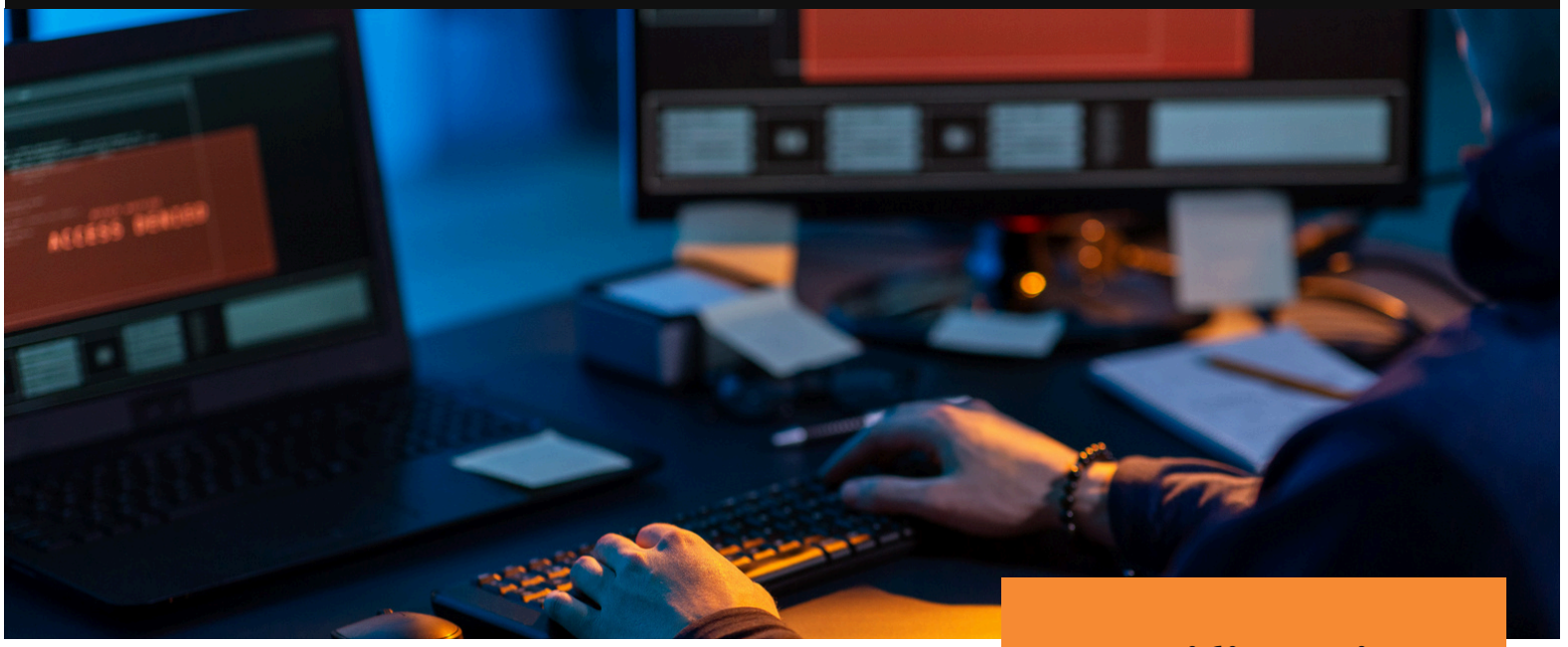

Paraben's Training Programs

Paraben Corporation specializes in digital investigator training, providing comprehensive instruction in the capture, analysis, and background understanding of digital data. Our carefully designed courses, offered in a lecture and lab format, equip you with the essential knowledge and technical expertise needed to enhance your investigative skills. Each level builds upon the foundational knowledge, culminating in practical application through hands-on lab exercises. Join us at Paraben Corporation to develop a complete skill set and excel in the field of digital investigation.

Level 1
- -Digital Forensics Fundamentals
- -Computer
- -Smartphone
- -Cloud Data

Level 2
- -Mobile Device Forensics

Level 3
- -Linux Forensic Investigations
- -Mobile & IoT Forensic Investigations

Certification

The certification process embedded within Paraben courses is strategically designed to evaluate your knowledge gained throughout the course. Upon completing the course, you will be required to take an examination, with a passing rate set at 80%, in order to obtain certification. Some courses also entail a mandatory lab component for certification. Each course has its own specific timeframes for recertification. All assessments are completed online and must be finished within 5 days following course completion to be eligible for certification.

Level 1 Courses

Getting Started in Digital Forensics

Digital Forensics Fundamentals

This course is designed for individuals entering the field of digital forensics. The class focuses on the steps needed for processing evidence, imaging, and more. This course focuses on the overall skills required of a digital forensics professional, not Paraben technology specifically.

Course Outline

SECTION 1: BACKGROUND
- Definitions of Digital Forensics
- Differences in Disciplines
- Case Types
- Legal Requirements (Civil vs. Criminal)

SECTION 2: OVERVIEW
- Hardware
- Operating Systems
- File Systems
- External Devices
- Other Sources of Evidence
- Networks
- Internet
- Mobile Devices

SECTION 3: COLLECTION
- Authority
- Chain of Custody
- Disassembly vs. boot disk
- Write Protection
- Imaging Process
- Hash Validation

SECTION 4: ANALYSIS
- What is the case about?
- Following the clues
- Dependent on OS and File System
- Email
- Artifacts
- Timeline
- Putting it together

SECTION 5: TOOLS
- Imaging
- Analysis

SECTION 6: REPORTING
- Who is the Audience?
- Format
- Expert or Technical
- Sections of a report
- Telling the story of the evidence

SECTION 8: CASE STUDIES

Attendance Options

Languages Available

Level 1 Courses

Getting Started in Digital Forensics

Paraben Operator-Level Courses

The Paraben operator-level certifications are designed to get you started in both mobile and computer forensics. Each course covers the operation of the Paraben E3 Forensic Platform in processing different data types.

Course Outlines

PCO-Paraben Computer Operator

- Course Overview
- Machine Requirements
- E3 Software Installation
- Licensing
- E3 Licensing Overview
- E3 Interface Overview
- Adding Evidence
- Physical Drive
- Hard Drive Image
- Email Archive
- Internet Browser Data
- Drive Triage
- Registry
- Content Analysis
- Forensic Containers Overview
- Searching & Sorting Data
- Generating Reports

Certification Opportunities:

- Certificate of Completion
- Certified Mobile Operator

PMO-Paraben Mobile Operator

- Course Overview
- E3 Software Installation
- Licensing
- E3 Licensing Overview
- E3 Interface Overview
- Adding Evidence
- Acquiring Phones
- Acquiring a Feature Phone
- Acquiring iOS
- Acquiring Android
- Importing Backups
- Reviewing Data
- App Analysis
- SQLite Analysis
- Content Analysis
- Importing Cloud Data
- Searching & Sorting Data
- Generating Reports

Certification Opportunities:

- Certificate of Completion
- Certified Computer Operator

Attendance Options

Languages Available

Level 1 Courses

Getting Started in Digital Forensics

Paraben Operator-Level Courses

The Paraben operator-level certification PCDO is designed to get you started in cloud forensics. This course covers the processing and analysis of cloud data in the Paraben E3 Forensic Platform. The PE3O certification is designed to get users familiar with using Paraben's E3:VIEW software.

Course Outline

PCDO-Paraben Cloud Data Operator

- Course Overview
- Machine Requirements
- E3 Software Installation
- Licensing
- E3 Licensing Overview
- E3 Interface Overview
- Proxy & VPN
- Cloud Keys
- Remote Cloud Collection
- Searching & Sorting Data
- Data Analysis
- Generating Reports

Certification Opportunities:

- Certificate of Completion
- Certified Cloud Data Operator

Course Outline

PE3O-Paraben E3 Operator

Course Overview
Machine Requirements
E3 Software Installation
Licensing
E3 Licensing Overview
E3 Interface Overview
Importing Data
Searching & Sorting Data
Data Analysis
Generating Reports

Certification Opportunities:

- Certificate of Completion
- Certified E3 Operator

Attendance Options

Languages Available

Level 2 Courses

Diving into Mobile Data Artifacts

Mobile Device Forensics

Paraben's Mobile Device Forensics Course is specifically designed to equip you with the skills and knowledge necessary for successful smartphone investigations. This comprehensive course covers acquisition and analysis techniques, going beyond tool usage to provide a deep understanding of the analysis process for all smartphone types. Explore the intricacies of Android and iOS devices, including their structure and functionality. The course focuses extensively on acquisition through demonstrations and the analysis of these popular devices, combining lectures and labs for optimal learning.

You will master comprehensive data analysis techniques, covering both the aforementioned device types along with a diverse range of other devices. You will also practice proper analysis techniques specific to popular apps.

Certification Opportunities

- Certificate of Completion
- Certificate of Accreditation - Certified Smartphone Analyst

Students must complete all labs to receive a Certificate of Completion. To achieve a Certificate of Accreditation, students are required to score at least 80% on the final examination.

The course timing is 8 hours a day for days 1-3 and 6 hours on day 4, including the final exam.

Attendance Options

Languages Available

Level 2 Courses

Diving into Mobile Data Artifacts

Course Outline

SECTION 1

- Mobile Device Forensics Overview
- Digital Forensics Basics
- What is digital forensics and what can be considered digital evidence?
- Computer Forensics vs. Mobile Forensics
- Why is mobile forensics so important today?
- Search & Seizure in the United States
- What gives you the authority to seize/collect evidence?

SECTION 2

- The Processes of Mobile Forensics
- What are the steps for an investigation from start to finish?
- Process Check Lists
- Forensic Rules for Mobile Devices
- How can you keep track of many pieces of evidence?
- On-Scene Triage Notes
- What is forensically sound and how can we achieve this?
- First Responder Guide
- Request First Responder Cards
- Forensic Rule for Mobile Devices – Power
- Forensic Rule for Mobile Devices – Signal Blocking
- Demonstration – StrongHold Bag Operation
- Faraday Technology

SECTION 3

- Forensic Rule for Mobile Devices – Cables & Accessories
- Forensic Rule for Mobile Devices – Use the Right Tool
- Forensic Rule for Mobile Devices – Acquisition Steps
- Mobile Collection Technology
- How does Paraben do Mobile Forensics?
- Sources of Evidence-Mobile
- What are the different types of storage in a mobile device and what kind of information can they contain?
- Why is a SIM card important?
- How is data saved/stored?
- Media Cards: which devices do and do not have them.
- CDR records

Level 2 Courses

Diving into Mobile Data Artifacts

Course Outline Cont.

SECTION 4

- Imaging Fundamentals
- Logical and Physical Mobile Media Imaging
- What is the difference between physical and logical acquisition and when would you use each?
- When would you acquire a SIM card and how would you do it?
- What are the most common types of acquisitions and how would you get them?
- Tool Orientation
- E3: Capabilities: Data Acquisitions
- Importing
- Cloud Data Import
- E3 Capabilities: Analysis
- Content Analysis: Sorting
- Content Analysis: Keyword Indexing
- Content Analysis: Extract Keywords from Images (OCR)
- Searching
- Mobile Evidence Comparer
- Bookmarks
- App Data Parsing
- Validating Hash Codes
- E3 Capabilities: Exporting & Reporting
- Reporting
- Secondary Tool Orientation: Autopsy

SECTION 5

- Process Check Lists
- Data Fundamentals
- What is File Carving and how is it done?
- SQLite Data
- Helpful Hints Mobile Forensics

SECTION 6

- Mobile Firmware
- File Systems and Data Storage
- Firmware
- How do you identify an Android OS?
- Android OS Architecture
- Androids
- Android Architecture
- Android File System
- Android versions
- Android Data

Level 2 Courses

Diving into Mobile Data Artifacts

Course Outline Cont.

SSECTION 7
- Apple
- iOS Fundamentals
- Apple iOS Operating System
- iOS Versions
- Digital Car Key
- Types of Apple Mobile Devices
- iOS Data Analysis
- Commonalities

SECTION 8
- SIM Cards Lab Section
- SIM Cards in E3

SECTION 9
- Android Acquisitions: Developer Mode
- Android Security
- Android Bypass
- Android Bootloader
- Android Rooting
- Rooting in E3 Root Utility Engine
- Android Activity Timeline
- Alternative Logical Acquisition Methods
- Android Physical

SECTION 10
- Chinese Chipsets
- MTK
- Spreadtrum
- Android Processing Tiers
- Chip Dumps

SECTION 11
- Removable Media Lab Section
- Accessories: Media Cards
- Other Mobile Devices
- eReaders
- GPS Devices

SECTION 12
- Apple iOS Architecture
- Apple iOS Acquisitions

SECTION 13
- iOS Backups
- Locked iOS Devices
- Creating an iOS Backup
- Creating an iOS Encrypted Backup
- Automated Encrypted Backup in E3

SECTION 14
- iOS Keychains
- iOS Logical Acquisition
- iOS Tips & Process Checklist
- Jailbroken Devices
- How do you identify an Apple OS?
- What is Jailbreaking?

SECTION 15
- Commonalities Between Android & iOS
- How is an iOS/Android OS structured?
- What are the differences between Apple and Android?
- What are third-party applications and why are they relevant?

SECTION 16
- Smartphone Analysis
- Android App Data and Analysis
- iOS App Data and Analysis

SECTION 17
- Processing iOS using Autopsy.
- What are the limitations of using one tool over another?
- How can you use the two tools in class to validate one another?

SECTION 18
- Specialized Analysis
- Cloud Data
- Processing Cloud

SECTION 19
- iOS Cloud Requirements
- iCloud

SECTION 20
- Compliance Archives Social Media

SECTION 21
- Spyware and Malware

SECTION 22
- Data from Other Sources
- What is metadata and what would it be used for?

SECTION 23
- Reporting

SECTION 24
- Archiving Evidence
- Final Exam

Level 3 Courses

Specialized training

Mobile & IoT Forensic Investigations

This advanced course is designed to delve deep into the complexities of both mobile and IoT forensics. Building upon the foundational knowledge gained from the PMO certification, this course will explore:

- Core Principles: Understand the fundamental principles and techniques applicable to both mobile and IoT devices.
- Practical Applications: Learn how to apply these principles to real-world investigations.
- Hands-On Lab Exercises: Enhance your skills through practical lab exercises, focusing on data collection and analysis.
- E3 Platform Mastery: Gain a comprehensive understanding of the E3 platform and its capabilities for mobile and IoT forensics.

Certification Opportunities

- Certificate of Completion
- Certificate of Accreditation - Certified Smartphone Analyst
- Certificate of Accreditation - Certified IoT Analyst

Students must complete all labs to receive a Certificate of Completion. To achieve the Certificates of Accreditation, students must complete two final labs and pass two final examinations with a score of at least 80%. Testing is available for 7 days following the course completion and must be submitted by that deadline for certification. Testing is closed notes, etc.

The course timing is 8 hours a day for days 1-4 and 6 hours on day 5.

Attendance Options

Languages Available

Level 3 Courses

Mobile & IoT Forensics

Course Outline

- DAY 1
- Section 1. Fundamentals
- Digital Forensics Basics
- Fundamentals Volume & Connection
- Cellular Connections Basics
- Process Checklists Mobile
- Search & Seizure in the US
- Chain of Custody

- Section 2. Forensic Rules
- The Process of Mobile Forensics
- On Scene Router Collection
- Forensic Rules for Mobile Devices
- Faraday Technology
- Sources of Evidence
- What is IoT?
- What are the different environments of IoT
- Forensic Rules for IoT Devices
- IoT Hubs
- Forensic Rules for IoT Devices

- Section 3. Evidence Items
- Sources of Evidence-Mobile & IoT
- SIM Cards
- Media Cards
- Call Detail Records

- Section 4. Forensic Tool Workflow – Tool 1
- Forensic Imaging Fundamentals
- Tool Orientation: Primary & Secondary
- E3 Platform
- Case Menu
- Evidence Tab
- Analysis Tab
- Reports Tab
- Tools Tab
- View Tab

- Section 4. Forensic Tool Workflow – Tool-Cont 1
- Export Tab
- Options Menu
- E3 Capabilities: Acquisitions
- Data Acquisition
- Open Existing Cases
- Adding Evidence
- Importing
- Cloud Data Import

- Section 5. Analysis Capabilities – Tool 1
- Analysis Capabilities
- Content Analysis: Sorting
- Content Analysis: Keyword Indexing
- Content Analysis: Extract Keywords from Images (OCR)
- Searching
- Keyword Searching
- Advanced Searching
- Boolean Searching
- Additional Functions
- Bookmarks
- App Parsing
- Exporting
- Reporting

- Section 6. Forensic Tool Workflow – Tool 2
- Cross Validation & Verification
- Secondary Tool: Autopsy
- Autopsy Data Analysis
- Searching

- Section 7. Acquisition Procedures
- Examination Process Checklist
- Logical vs Physical Imaging
- Acquisition Procedures - Android
- Acquisition Procedures - iOS
- Acquisition Procedures - IoT
- Acquisition Procedure - Routers
- Helpful Hints: Mobile & IoT Forensics

Level 3 Courses

Mobile & IoT Forensics

DAY 2

- Section 8. Data Fundamentals
- Data Fundamentals
- Types of Messaging
- Call History Metadata
- Recoverable Data
- Parsed vs Non-Parsed Data
- SQLite Data
- App Data SQLite
- Plist Data
- App Data Plist
- JSON Data
- App Data JSON

- Section 9. IoT Overview
- Types of IoT Devices
- Expectations of Data IoT

- Section 10. Mobile Firmware
- Mobile Firmware
- General Firmware
- iOS Firmware
- Android Firmware
- Android OS
- Android Data Basics
- iOS Devices
- Types of iOS Devices
- iOS Data Analysis

- Section 11. Commonalities: Mobile & IoT
- Commonalities
- Working with SIM Cards
- Other Media Analysis Smartphones
- IoT Media Cards

- Section 12. Android Acquisition Fundamentals
- Android Acquisitions
- Developer Mode
- Android Security
- Android Rooting
- 3rd Party Rooting
- ADB Acquisitions
- ADB Acquisitions - App Downgrade
- Android Activity Timeline
- ADB Options
- ADB Acquisitions
- ADB Imports
- Android Physical
- Locked Androids
- Android Bootloader
- Bootloaders in E3
- Chip Dump Acquisitions
- MTK Chip Dumps
- Spreadtrum Chip Dumps
- Qualcomm Chip Dumps
- Android As Media Device
- Android Processing Tiers

Level 3 Courses

Mobile & IoT Forensics

DAY 3

- Section 13. iOS Acquisitions
- Apple iOS Acquisitions
- iOS Backups
- Creating an iOS Backup
- Creating an iOS Encrypted Backup
- iOS Keychain Data
- Locked iOS Devices
- iOS Logical Acquisition
- iOS Tips & Tricks
- Jailbroken Devices

- Section 14. Smartphone Analysis
- Smartphone Analysis
- App Data
- Investigative Perspective on Apps
- Understanding Apps
- Android Analysis
- Android App Analysis
- Android Hidden App Analysis
- iOS Analysis
- iOS Hidden Apps
- iOS App Analysis
- iOS Specific Data Analysis
- Value of Metadata
- Siri
- iOS Recalled Messages
- iOS Edited Messages
- iOS Deleted Messages

- Section 15. Spyware & Malware: Smartphones
- Spyware & Malware Analysis
- Malware in E3

3 Level 3 Courses

Mobile & IoT Forensics

- DAY 4
- Section 16. Alternative Android Devices
- Other Android Devices

- Section 17. Cloud Data
- Cloud Data
- Types of Clouds
- Legal Lines of Cloud
- Collecting Cloud Data
- Key Options
- Lab Setup
- 2FA Barriers

- Section 18. Importing Cloud Data
- Importing Cloud Data
- iOS Authentication Data
- iCloud
- iCloud Sync Data
- Cloud Process Checklist

- Section 19. Other Cloud Collection Methods
- Other Cloud Data Sources
- Live Cloud Capture

- Section 20. Compliance Data
- Compliance Data-Google Takeout
- Compliance Data Social Media

- Section 21. IoT Analysis: Human
- IoT Human
- Types of Devices
- Embedded
- Attached
- Sensor
- Toys & Games
- General
- Mixed Reality
- Oculus
- Gaming Systems
- Wearables
- Ray-Ban Glasses
- Tizen OS
- Process Checklist Wearables
- Apple Watch
- Fitness Devices

Level 3 Courses

Mobile & IoT Forensics

- DAY 5
- Section 22. IoT Analysis: Home
- IoT Home
- Types of Devices
- Home Management

- Section 23. IoT Analysis: Office
- IoT Office
- Types of Devices

- Section 24. IoT Analysis: Cities & Factories
- IoT Cities
- Types of Data
- IoT Factories
- Types of Data

- Section 25. IoT Analysis: Outside
- IoT Outside
- Types of Data
- Other Mobile Devices with Outside
- IoT Farming
- Drones

- Section 26. Specialized Analysis
- Specialized Analysis
- Use of AI in Investigations

- Section 27. Closing Out the Case
- Archiving Evidence
- Sharing Data with Others

3 Level 3 Courses

Specialized training

Linux Forensic Investigations

Paraben's Linux Forensics Course is a comprehensive 5-day program that provides participants with the knowledge and skills needed to conduct forensic analysis on Linux systems.

Course Outline

SECTION 1: Linux OS Fundamentals

- Introduction to Linux
- Linux Command-Line Interface
- Linux Graphical User Interfaces
- Fuse Filesystems
- The Linux Boot Process

SECTION 2 and 3: Forensic Artifacts in Linux

- System Level Artifacts
- User Level Artifacts
- Application-Level Artifacts

SECTION 4 and 5: Linux Tools for Forensic Analysis

- Seizure process for Linux
- Bootable Imager Disk
- Using Linux for Forensics
- Paraben's Linux Examiner Virtual Machine
- Paraben's Linux Examiner Bootable ISO
- Using Python in Paraben's Linux Examiner
- Encryption and Password Cracking in Paraben's Linux Examiner
- Using Autopsy in Linux
- Using Paraben's Electronic Evidence Examiner for Linux Forensics
- Course Review
- Course Examination

Attendance Options

Languages Available

Course Pricing

Bulk Discounts Available

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All training is priced per enrollment unless otherwise noted. In-person classes are non-refundable and are converted to a voucher if the reserved course is not attended. All courses are taught in English for live or live online delivery options. Language variations are noted in the enrollment options. Bulk discounts are available for two or more students per course. Contact training@paraben.com for a quote on bulk enrollment or if you are interested in hosting an in-person course.

Digital Forensics Fundamentals $595.00 U.S.

Course is available in English and Spanish. All courses are online and on demand .

Operator Level Courses-Level 1 $299.00 U.S. (Per Course)

Paraben Cloud Data Certified Operator is free with License Purchase for unlimited enrollment within an organization. Independent purchase has fee if software license was not purchased. All courses are online and on demand. Course is in English only.

Paraben Computer Certified Operator is free with License Purchase for unlimited enrollment within an organization. Independent purchase has fee if software license was not purchased. All courses are online and on demand. Course is in English only.

Paraben Mobile Certified Operator is free with License Purchase for unlimited enrollment within an organization. Independent purchase has fee if software license was not purchased. All courses are online and on demand. Course is in English and Spanish.

Paraben E3 Certified Operator is free with License Purchase for unlimited enrollment within an organization. Independent purchase has fee if software license was not purchased. All courses are online and on demand. Course is in English. This course is designed for users of the E3:VIEW license.

Mobile Device Forensics $1,795.00 U.S.

Course is available in English. This course is available online on demand as well as in person, and live online. Private classes can be made available with discounts.

Mobile Device & IoT Forensics $2,195.00 U.S.

Course is available in English. This course is available online on demand as well as in person, and live online. Private classes can be made available with discounts.

Linux Forensic Investigations $2,295.00 U.S.

Course is available in English. This course is available online on demand as well as in person, and live online. Private classes can be made available with discounts.