



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.

Click to Learn More About...

Level 1

- Digital Forensics Fundamentals
- Computer
- Smartphone
- Cloud Data

Level 3

- Linux Forensic Investigations
- IoT Forensic Investigations

Level 2

- E3 Fundamental Fast Track
- Mobile Fast Track

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 85%, 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 conducted online and must be finished within 5 days following course completion to be eligible for certification.



Level 1 Courses

Getting Started in Digital Forensics

Level 1

Digital Forensics Fundamentals

This course was designed for individuals entering the field of digital forensics. The class focuses on the steps needed for processing evidence, imaging, and more. This course does not focus on Paraben technology but on the overall skills needed for a digital forensic professional.

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
- Network
- 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

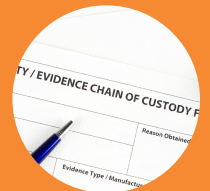
SECTION 5: TOOLS

- 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



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Level 1 Courses

Getting Started in Digital Forensics

Level 1

Paraben Operator-Level Courses

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

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

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



Attendance Options



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Level 1 Courses

Getting Started in Digital Forensics

Level 1

Paraben Operator-Level Courses

The Paraben operator-level certifications are designed to get you started in cloud forensics. This course goes through the operation of the Paraben E3 Forensic Platform regarding different data types of processing.

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



Attendance Options



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Level 2 Courses

Diving into Data Artifacts

Level 2

E3 Fundamental Fast Track

The E3 Fast Track course will give attendees everything they need to be proficient in forensic examinations using E3 through a variety of different common evidence types. Students attending the E3 Fast Track should already be trained in the basics of computer forensics. This course will focus on utilizing E3:UNIVERSAL in your examinations and will not cover the fundamentals of digital forensics.

Course Outline

- Digital forensics using E3.
- Data Acquisition using DP2C.
- Adding Evidence Types
- Processing Options: Setup, hashes, sorting, indexing, etc.
- Hard Drive Triage Options
- Forensic Storage Containers
- Memory Acquisition and Analysis
- File System Analysis
- Virtual Machines
- Internet Evidence
- Messaging (Yahoo!, Skype, ICQ, Miranda, Hello, and Trillian, etc.)
- Local Email Archives (PST, OST, etc.)
- Network Email Archives (GroupWise, Lotus Notes, Microsoft Exchange)
- Office 365
- Cloud Data
- Google Takeout
- Smartphone Data Import
- Mobile Data Compatibility
- Data Reporting
- Data Exporting
- Course Review
- Written Examination



Attendance Options



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Level 2 Courses

Diving into Data Artifacts

Level 2

Mobile Fast Track

The Mobile Fast Track course is 4 days or 30 hours of hands-on labs and lectures covering both the acquisition as well as analysis of common data associated with smartphones. Details on both Android and iOS are covered. This course is offered in a variety of formats.

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



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Level 2 Courses

Diving into Data Artifacts

Level 2

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



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Level 2 Courses

Diving into Data Artifacts

Level 2

Course Outline Cont.

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

SECTION 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



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Level 2 Courses

Diving into Data Artifacts

Level 2

Course Outline Cont.

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 do you need to find?
- What is Jailbreaking and what could it do for an investigator?

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



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Level 2 Courses

Diving into Data Artifacts

Level 2

Course Outline Cont.

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
- What is reporting?
- What goes into a report?
- Different types of reports

SECTION 24

- Archiving Evidence
- Final Exam

Live online and In-Person class options are prescheduled. Please refer to the Paraben calendar for available dates and locations. If you are interested in hosting a private class please email us at training@paraben.com.



Attendance Options



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Level 3 Courses

Specialized training

Level 3

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





Level 3 Courses

Specialized training

Level 3

IoT Forensic Investigations

Paraben's IoT Forensics Course, offered by Paraben Corporation, is a comprehensive 15-hour program specifically designed to enhance your skills in processing IoT devices and data. With a curriculum that combines both lecture and lab-style learning, this course caters to all types of examiners. Whether you aim to refine your existing skills or simply acquaint yourself with Paraben's examination methodology, this course is an excellent opportunity for professional development.

Course Outline

- What is IoT
- What are the different forensic areas for IoT?
- Forensic Rules associated with mobiles and IoT
- IoT Hubs
- App Data Processing
- IoT Technology Environments
- IoT Human
- IoT Home
- IoT Retail
- IoT Office
- IoT Factories
- IoT Worksites
- IoT Vehicles
- IoT Cities
- IoT Outside
- IoT & Artificial Intelligence
- Course Examination
- IoT Home
- IoT Retail
- IoT Office
- IoT Factories
- Course Review
- Course Examination

Attendance Options



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