

PARABEN'S DFIR TRAINING

Keeping up to date in the changing horizon of technology is difficult for anyone. Paraben's experts take that burden into mind when we designed the Paraben training programs. Each course is designed to capitalize on your time with giving you the most on topic and current information in a short window of time.

Each course is designed around both expert lecture as well as practical lab exercises whether the course is in person or online you get what you need to learn the latest topics in technology to tackle today.

Paraben's Training Academy

Enrollment in the online training Academy at Paraben allows you to get top of the line content that you can do at your own pace. Each course comes with lecture, labs, and certifications.

Once you start a course you get to complete it at your own pace over the 30-day enrollment period. There are always new courses being added into the Academy that are focused on what is trending and changing in the space of digital investigations.

Available Certifications in Live & Online Courses:

- DSMO-Online Only
- PCSE-Online or Live Course
- PCME-Online Only
- IoT-CE-Live Course
- P2CO-Online Only
- PCCE-Online Only
- PCE3-Online Only

How do I get started?

You can sign up online to start any of the online certifications from www.paraben.com. If you want to get details on the live courses you can contact us at training@paraben.com and we can let you know the training locations and dates. An active schedule is also maintained on our website.

What are the skill levels?

Everyone needs to start somewhere and the Paraben Training Academy is a great first step to get you involved in digital investigations. Many of the courses teach the data behind the investigation and how your tools can find this data. Getting started is the key as you always have the Paraben resources available to you.



Paraben's
ELECTRONIC EVIDENCE EXAMINER

**FORENSIC
FUNDAMENTALS
Validation
ONLINE**

If you are not validating tools you are missing a core component to your lab standards. This course will walk you through how to write a validation plan and the process of validating for a variety of digital evidence.

**FORENSIC
FUNDAMENTALS
Computer
ONLINE**

If you are getting started and need to learn the fundamentals of computer forensics. This is a great course to get started with. From the procedures to the basics of file systems you get the foundation knowledge you need.

**FORENSIC
FUNDAMENTALS
Mobile
ONLINE**

Understanding the complicated world of mobile devices is critical when it comes to processing the large variety of devices. This course focuses on how the devices work, how data is transmitted, and stored.

**PYTHON with E3
ONLINE**

This course focuses on using the new E3 Python engine to maximize what you can do with your digital evidence.

**E3 Fundamentals
ONLINE**

This course focuses on the fundamentals of using E3 with a large variety of evidence types. From capture, analysis, and reporting you will go start to finish through the forensic process with E3.

**MOBILE FAST TRACK
3-Days Live**

Mobile devices have become a staple of digital evidence and understanding the complete process for these devices is essential. This course is hands on processing and analysis of all types of smartphones and associated data.

**ADVANCED
MOBILE FORENSICS
2-Days Live**

Mobile devices have many ins and outs that can only be discovered after a deep dive into their communication protocols. This course focuses on access to deeper data in the device from rooting, to scripting.

**IoT FORENSICS
ONLINE**

16-Hours

In the world of digital devices IoT-Internet of Things is expanding faster than any other. Understanding the 9-IoT environments and the potential digital evidence they hold will prepare your organization for the future of digital crime.

TRAINING LOCATIONS

Northern Virginia, USA

CIT Building
2214 Rock Hill Road, Suite 600,
Herndon, VA 20170-4228

Closest Airport-Washington Dulles IAD
Hotel Recommendations
Hyatt Herndon Dulles
13711 Sayward Blvd, Herndon, VA 20171
Phone: 1.571.643.0905

Are you interested in hosting a Paraben Training Course? We would love to talk to you about what the requirements are for hosting.

Email Us at training@paraben.com

New Berlin, Wisconsin, USA

Digital Intelligence
17165 W Glendale Dr
New Berlin WI 53151

Closest Airports-
Milwaukee International Airport (MKE)

Hotel Recommendations:
Residence Inn by Marriott Milwaukee Brookfield
& TownPlace Suites by Marriott

London, England

Avatu
Unit E2 Regent Park
Summerleys Rd
Prices Risborough HP27 9LE
United Kingdom

Closest Airport
London Heathrow

Hotel Recommendations & Enrollment
Please contact us at sales@avatu.co.uk

Augusta, Georgia, USA

Georgia Cyber Center Hull McKnight Bldg
100 Grace Hopper Lane, Augusta GA 30901

Closest Airport
Columbia Metropolitan Airport in Columbia, S.C

Hotel Recommendations
Holiday Inn Augusta
Augusta Marriott

San Diego, California, USA

KM Meeting Center
9475 Chesapeake Dr
San Diego CA 92123

Closest Airport
San Diego International Airport

Hotel Recommendations
Hampton Inn San Diego Kearney Mesa
Residence Inn by Marriott San Diego Central

E3 FUNDAMENTALS

MODULE 1-Getting Started

- Digital forensics using E3 Platform
- Data Acquisition using DP2C
- Adding Evidence Types
- Processing Options:
 - Setup
 - Hashes
 - Sorting
 - Indexing

MODULE 2-Computer Forensics

- Hard Drive Triage
- Forensic Storage Containers
- Memory Acquisition and Analysis
- File System Analysis
- Virtual Machines

MODULE 3-Internet Evidence

- Internet Browsers and History
- Instant Messaging

MODULE 4-Local Email Archives

- Processing Local Email
- Email Archives
- PST
- OST
- Other Archives:
 - AOL
 - Thunderbird
 - Windows Mail
 - Eudora

MODULE 5-Network Email Archives

- Network Mail Archives
- GroupWise
- Lotus Notes
- MS Exchange
- Data Reporting and Exporting

MODULE 6-Smartphone Data

- Importing Backups-iOS
- Review of SQLite Data-Basic

MODULE 7-Reporting

MOBILE FAST TRACK

DAY 1

- Welcome
- The choices of mobile forensics
- Computer Forensics vs. Mobile Forensics
- Forensic Rules for Mobile Devices
- Faraday Technology
- Paraben Technology
- How does Paraben do mobile forensics?
- E3:DS Capabilities Data Acquisitions
- E3:DS Capabilities Analysis
- E3:DS Capabilities Exporting & Reporting
- Review with Others Tools
 - E3 Viewer
 - Link2
- Helpful Hints Mobile Forensics
- Review Process Check List
- Other & Legacy Smart Devices
- Microsoft Mobile Devices
- RIM BlackBerry
- SIM Cards
- Lab Validation

DAY 2

- Google Android
- What is firmware?
- Android Distribution
- History of Android
- Android Versions
- Android Tablets
- Android Architecture
- Android Data
- Android Security
- Developer Mode

- Android Rooting & Bootloaders
- Android Logical Acquisition
- Android Physical Acquisition
- Data Analysis
- Accessories-Media Cards
- Android Wearables
- Spyware & Malware
- eReaders

DAY 3

- iOS Fundamentals
- History
- iOS Versions
- iOS Devices
- iPods
- iPod Touch
- iPad
- iPhones
- iOS Backups
- iOS Logical Acquisitions
- iOS Physical Acquisition
- Jailbroken Devices
- iOS Data
- App Data
- Cloud App & Keychain Recovery
- iCloud
- Using Other Tools
- Live Capture Smartphones
- Future of Investigations
- Review
- Course Examination


IoT FORENSICS

*Lectures and Labs are involved in each section.
This course has a prerequisite of Mobile Fast Track.*

DAY 1

- Welcome
- What is IoT?
- What are the different forensic areas?
- Forensic Rules associated with mobiles and IoT
- IoT Hubs
- App Data Processing
- IoT Technology Environments
- IoT Human
- IoT Home

DAY 2

- IoT Retail
 - IoT Office
 - IoT Factories
 - IoT Worksites
 - IoT Vehicles
 - IoT Cities
 - IoT Outside
 - IoT & Artificial Intelligence
 - Course Examination
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MOBILE FUNDAMENTALS

MODULE 1: MOBILE PHONE FORENSICS

- Mobile Phone Forensics Defined
- Type of Phones
- Hardware Profiles
- Potential Evidence

MODULE 2: THERE ARE 10 OPTIONS IN BINARY

- Introduction to Binary
- Bits, Nibbles & Bytes
- Covering the “Bases”
- Data Conversion

MODULE 3: DATA STRUCTURES

- Tools to View Hexadecimal
- Hex to ASCII Conversions
- Mapping Data with Offsets
- Unicode
- Reversing Nibbles
- Base 64 Explained

MODULE 4: DATA STORAGE

- NAND, NOR, UFS and Flash memory
- Partitions
- Allocated and Unallocated
- What is a forensic image

MODULE 5: UICC / SIM CARDS

- Introduction to UICC and SIM
- Form Factors of UICC
- Evidence on the UICC
- UICC Security

MODULE 6: OPERATING SYSTEMS & FILE SYSTEMS

- Definitions of an OS and FS
- Common OS's
- Viewing the OS Structure

MODULE 7: CELLULAR STRUCTURE

- Defining CDMA & GSM
- Important Cellular Terms
- Cellular Towers and Cells
- Overview of Cellular Mapping

MODULE 8: BEST PRACTICES

- Collections
- Radio Isolation
- Chain of Custody
- Device ID's and Gathering Information
- Validation

COMPUTER FORENSIC FUNDAMENTALS

MODULE 1: BACKGROUND

- Definitions of Digital Forensics
- Differences in Disciplines
- Case Types
- Legal Requirements (Civil vs Criminal)

MODULE 2: OVERVIEW

- Hardware
- Operating Systems
- File Systems
- External Devices
- Other Sources of Evidence
- Network
- Internet
- Mobile Devices

MODULE 3: COLLECTION

- Authority
- Chain of Custody
- Disassembly vs boot disk
- Write Protection
- Imaging Process
- Hash Validation

MODULE 4: ANALYSIS

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

MODULE 5: TOOLS

- Imaging
- Analysis

MODULE 6: REPORTING

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

MODULE 7: TESTIMONY

- Preparation
- Appearance
- Tone/Demeanor
- Stress
- Expert or Technical?
- Credentials

MODULE 8: CASE STUDIES