

# Sirchie Hosted Class

## *Bloodstain Pattern Documentation with Death Investigation*



**Host:** Somerset, NJ Crime Scene Investigation Unit

**Location:** Somerset, NJ Crime Scene Investigation Unit  
209 Cougar Court—Forensics Laboratory  
Hillsborough, NJ 08840

**Dates:** September 18-22, 2023

# Bloodstain Pattern Documentation with Death Investigation

With the cooperation of Somerset, NJ Crime Scene Investigation Unit, Sirchie is offering this 5-day Forensic Investigation Class at the Somerset, NJ Crime Scene Investigation Unit, 209 Cougar Court—Forensics Laboratory, Hillsborough, NJ 08840

## Curriculum

### Day 1

- Introduction and Registration
- Historical Development of Bloodstain Pattern Analysis
  - Dr. Paul Kirk and intro to Dr. Sam Sheppard case
- Basic Principals of Bloodstain Pattern Analysis
- Basic Bloodstain Pattern Crime Scene Documentation
  - Camera Settings and Scene Photography
  - Sketching Bloodstained Scenes

### Day 2

- Understanding blood traveling at angles and calculating angle of impact and point of origin

### Day 3

- Recognizing and documenting the basic bloodstain patterns
- Study of actual bloodstain pattern cases, including the Sam Sheppard case
- DNA collection and presumptive testing and enhancement of bloodstains

### Day 4

- Practical Exercise - Creating Basic Bloodstain Scenes
- Practical Exercise – Process bloodstain pattern crime scene and report results
- Final Exam – Visual pattern recognition test
- Final Exam – Written test
- Graduation and conclusion of course

### Day 5

#### ***Death Investigation: Documenting & Collecting Key Evidence for Scene to Autopsy Investigation***

With only approximately 60% of the 20,000+ murders occurring annually being “solved”, and many times that number of equivocal deaths requiring an investigation by law enforcement, this module is designed to provide the necessary knowledge to resolve even the most complex death investigations, including child, elderly, asphyxia, fire, firearms, fall, crushing, thermal, high velocity, motor vehicle, and sharp and blunt force deaths.

Attendees receive a block of instruction on forensic pathology, the Coroner and Medical Examiner Systems, manner, cause, and mechanism of death. Autopsy and medicolegal death terminology are explained including nuances between a laceration and incise wound, various blunt force trauma including differing types of fractures, and common causes for each type of wound. Firearms injuries are explored and explained including the differences in distances that can help determine whether a witness’s account is truthful or not. Time of death and post-mortem interval and other forensic concepts are discussed throughout the course. Forensic anthropology and entomology instruction are included as it pertains to identification of found remains, skeletal trauma identification, grave recovery, and what insect activity must be observed and documented for a proper review by the forensic anthropologist and entomologist.

### Enrollment

Minimum enrollment will be 18 students with a maximum enrollment of 25 students. The cost per student is \$650.00. All materials, supplies and equipment will be supplied by Sirchie. Students will be responsible for their own transportation and related per diem expenses.

Individuals interested in attending must register on-line with Sirchie in accordance with the instruction below no later than 5 days prior to the class, Sirchie reserves the right to cancel this class if the minimum number (18) students has not been met.

Students can register for the class by logging onto Sirchie’s website at <http://www.sirchie.com/training.html>. Off-site classes must be paid by credit card or the issuance of your departments purchase order. If you have any questions, please call Sirchie Education and Training at (800) 356-7311 or (919) 554-2244.

### Instructor: David Alford

David Alford is a retired FBI Special Agent with over 20 years of experience and served as one of the founded members of the FBI Evidence Response Team (ERT). He has investigated domestic and international violent crimes and bombings, including the Polly Klaas kidnapping and murder, the Unabomber’s cabin and the 9/11 Pentagon scene. In the six years before the FBI, he was a Forensic Serologist, Hair and Fibers Examiner and Bloodstain Pattern Analyst for the Kentucky State Police Crime Lab.



For more info contact:

#### **Kristen Houck**

Phone: 908-575-3384

Email: [KHouck@co.somerset.nj.us](mailto:KHouck@co.somerset.nj.us)

#### **Alyssa Myrnyj**

Phone: 908-541-5037

Email: [AMyrnyj@co.somerset.nj.us](mailto:AMyrnyj@co.somerset.nj.us)

**Airports:** the closest airport to the training location is Newark International Airport, which is about a 45-minute drive away.

**Hotels:** There are multiple hotels within 15 minutes of the training locations to include the Bridgewater Marriott, Hilton Garden in Bridgewater, and Hampton Inn & Suites.

