

# Sirchie Hosted Class

## *5-day Bloodstain Pattern Class*

**Host:** Lebanon County Detective Bureau

**Location:** Lebanon County Dept. of Emergency Services  
1805 Cornwall Road  
Lebanon, PA 17042

**Dates:** June 9-13, 2025

# Bloodstain Pattern Documentation

This five-day, hands-on course is intended for those who are responsible for investigating and processing violent crime scenes involving bloodshed. The course intended to assist students in developing a fundamental knowledge of the discipline of bloodstain pattern analysis. In addition, this course will illustrate to students the basic principles of bloodstain pattern analysis and the practical application of Bloodstain Pattern Analysis in real casework. It must be understood that this course is not intended to make the student and instance expert in the discipline.

***This class is approved for 40 hours toward IAI Crime Scene & Bloodstain Pattern Analyst certification and recertification.***

## Curriculum

### Day 1

- Welcome, Introductions and Administrative Matters
- Photography Review
- Introduction to Bloodstain Pattern Analysis
- Important reminders when conducting a bloodstain analysis and limitations of analysis.
- History of Bloodstain Pattern Analysis
- The scientific method and developing objective case-oriented experiments.
- OSAC information
- Anatomical & Physical Properties of Blood
- Universal precautions
- Bloodstain Terminology & Discussion
- Case Studies
- Review of Day 1

### Day 2

- Discussion of bloodstains and bloodstain patterns
- Bloodstain Taxonomy & Decision Charts
- Examination of Various Bloodstains and Bloodstain Pattern (poster board stains)
- Presumptive Blood Testing with hands on exercises (Kastle Myers, luminol, LCV, etc.)
- Practical Exercise 1 – Volume of Blood in Relation to Stain Size, Stain/Pattern Documentation and Exercise Discussion
- Practical Exercise 2 – Stain Size vs. Distance Fallen, Stain/Pattern Documentation and Exercise Discussion
- Practical Exercise 3 – Stain Shape vs. Angle of Impact, Stain/Pattern Documentation and Exercise Discussion
- Impact Spatter & Forward vs. Back Spatter
- Case Study & Discussion
- Expired Blood
- Day 2 Review

### Day 3

- Angle of Impact Determination
- Calculating Angle of Impact & Tabletop Exercise in Measuring & Calculating Stains
- Practical Exercise 4 – Impact Spatter Resulting from Blunt Force Trauma, Stain/Pattern Documentation and Exercise Discussion
- Area of Convergence & Tabletop Exercise in Determining Area of Convergence
- Area of Origin Determination
- Pattern Recognition With Practical Exercises
  - Practical Exercise 5 – Projected and Splashed Blood
  - Creating Blood Flow Pattern
  - Blood Pool
  - Drip Pattern (Blood into Blood on Horizontal and Vertical Surfaces)
  - Blood Trail from Horizontal Motion
- Case Presentation
- Review Day 3

### Day 4

- Cast of Stains/Pattern
- Practical Exercise 6 – Cast of Creation, Stain/Pattern Documentation and Exercise Discussion
- Transfer & Contact Stains
- Practical Exercise 7 – Transfers, Wipes and Swipes, Stain/Pattern Documentation and Exercise Discussion
- Practical Exercise 8 – Drying Time of Blood, Stain/Pattern Documentation and Exercise Discussion
- Importance of Bloodstain Pattern Analysis in an Investigation
- Case Studies
- Review of Stain Patterns
- Bloodstain Documentation (Photography, OSCR360, Worksheets)

### Day 5

- Limitations & Challenges of Bloodstain Pattern Analysis
- Defending Your Methodology & Courtroom Testimony
- Creating Mock Crime Scenes
- Case Study Presentations
- Written Final Examination
- Practical Final Examination – Working Crime Scenes Created Earlier
- Graduation & Dismissal

## Enrollment

Minimum enrollment will be 18 students with a maximum enrollment of 25 students. The cost per student is \$695.00. 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.

## For more info contact:

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## Area Hotels:

**Fairfield Inn & Suites Lebanon** *Near Expo Center*  
100 Springwood Drive  
Lebanon, Pennsylvania, USA, 17042  
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