E/S/R
Science for Communities

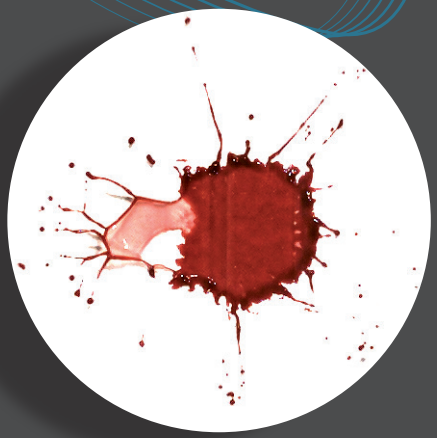
THE FLUID DYNAMICS OF BLOODSTAIN PATTERN FORMATION

advanced BPA training

October 13-17, 2025

Meridian Police Dept. Training Facility
1223 E. Watertower St.
Meridian, Idaho 83642

$1650 (IABPA Members Price)
$1750 (Non-IABPA Members Price)



This 40-hour course will give bloodstain pattern analysts an understanding of the basic principles of fluid dynamics as they apply to bloodstain pattern formation.

What you will learn

Our aim for the course is to help bloodstain pattern analysts develop greater interpretative skills. We explore the connections between the physical mechanisms that cause blood to leave the body and the characteristics of static bloodstain patterns. We look closely at the properties of blood as a fluid and the physics of blood droplet behaviour.

After this course you will be able to:

- describe and explain the critical physical properties of fluids
- describe and demonstrate the differences between blood and other common fluids and how that relates to Bloodstain Pattern Analysis
- explain the underlying physical mechanisms of the formation of major bloodstain types
- relate the observed characteristics of the major bloodstain pattern types to the underlying mechanisms of their formation
- use video bloodstain pattern analysis source material in the presentation of court evidence or in basic bloodstain pattern analysis training.

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Our approach:

We take a practical, hands-on approach. You will work in small groups on a set of experiments, using a high speed camera to capture bloodstain patterns.

Groups will review and analyse experimental data, and prepare and present presentations to the class describing the results. You will practice making connections between the dynamics of pattern formation and the features of the resultant static bloodstain pattern.

There will also be lectures and class discussions about the principles of fluid mechanics that will help you gain higher-level interpretative pattern recognition skills.

Pre-course assignment:

Some pre-course work, including refresher training on some basic maths and physics, is required before the course starts.

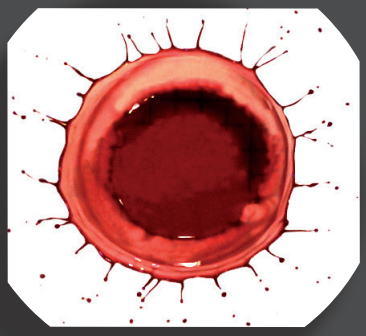
Course assessment:

There are three parts to the course assessment:

1. Completion of a practical workbook
2. An oral presentation made on the final day of the course
3. An open-book, written exam on the fundamentals of fluid dynamics

Instructed by: Rosalyn Rough, Forensic Senior Scientist, ESR (Institute of Environmental Science and Research), Christchurch Science Centre, New Zealand

This highly sought after course is being brought to the United States by the International Association of Bloodstain Pattern Analysts (IABPA)



For more information, contact:

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Register Here

WHAT COURSE GRADUATES HAVE SAID:

" . . . any serious person involved in BPA should take this course"

" . . . puts science back into forensic science"

"This course should be mandatory . . ."