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 of in basic bloodstain pattern analysis training
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 analyze 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 basic math 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

WHAT OUR 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…”
Instructors

**Dr Mark Jermy**, University of Canterbury, Christchurch, New Zealand

**Ms Rosalyn Rough**, the Institute of Environmental Science and Research (ESR), Christchurch, New Zealand

For more information regarding content and requirements of the course contact:

**Rosalyn Rough**
Forensic Senior Scientist
Institute of Environmental Science and Research (ESR), Christchurch Science Centre
P O Box 29 181, Christchurch 8041, New Zealand
T: +64-3-351-0013  F: +64-3-351-0046
M: +64-27-222-5116
E: rosalyn.rough@esr.cri.nz

ESR (The Institute of Environmental Science and Research) is a Government-owned Crown Research Institute that delivers world class knowledge, research and laboratory services to help New Zealand get the most out of its investment in science and innovation.

For further information, please contact:
INSTITUTE OF ENVIRONMENTAL SCIENCE AND RESEARCH LIMITED
Christchurch Science Centre, 27 Creyke Road, Ilam, Christchurch 8041, New Zealand
T: +64 3 351 6019

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Course Fee: $1900.00 CAN
Registration Closes: May 31, 2017

For registration information and to register for the course contact:

S/Sgt. Doug Standing
RCMP - K Div. Forensic Identification Services
11140 – 109th Street,
Edmonton, AB T5G 2T4
T: (780) 495-3118
E: doug.standing@rcmp-grc.gc.ca

Recommended Accommodation:

FOUR POINTS by Sheraton Edmonton Gateway
10010 12th Ave,
Edmonton, AB T6X 0P9
T: (780) 801-4000

Room rate: $129.00 + taxes
- This rate is specifically for candidates attending the Fluid Dynamics Course (reference RCMP when making a reservation).
- Candidates are responsible for their own accommodations and meals.
- Daily transportation to and from the course will be provided for people staying at the Four Points.

***SPECIAL RATE ONLY IN EFFECT UNTIL MAY 17, 2017***