

## SER: Training - Identification of Bloodstains

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**Topics of study**     The trainee will study:

- presumptive tests
  - Kastle-Meyer
  - Hemastix
- confirmatory tests
  - Takayama
  - Hematrace
- species determination (optional)
  - Ouchterlony

The trainee may study the following presumptive chemical tests for visualization described in the *Crime Scene Manual*:

- Fluorescein
  - Luminol
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**Knowledge**     The trainee will read appropriate sections from the following references:

- Culliford, B.J., 1971, *The Examination and Typing of Bloodstains in the Crime Laboratory*.
- Gaensslen, R.E., 1983, *Sourcebook in Forensic Serology, Immunology, and Biochemistry*.

It is recommended that trainees review relevant literature located in the Serology/DNA Laboratory and laboratory library.

The trainee will review the technical procedures for the testing of blood.

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## SER: Training - Identification of Bloodstains, Continued

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### Practical exercises

Using presumptive, confirmatory, and optional species tests, the trainee will examine:

- bloodstains from different people
- bloodstains which have been subjected to environmental insults
- blood from different species
- human blood which has been serially diluted
- other body fluids

Using presumptive tests, the trainee will also examine:

- chemical oxidants
  - fruit and vegetable stains
  - potential contaminants (for example, soil)
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### Assessment

The trainee will perform a competency test using the procedures in this section to identify bloodstains.

This competency test may be given as part of a more comprehensive test upon completion of all body fluid identification training.

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