

# Sirchie Hosted Class

## CSI and Forensic Investigation

### Plus Photography



**Host:** Spokane County Sheriff's Office

**Location:** Spokane County Sheriff's Office Regional Training Center  
13033 W. Highway 902  
Spokane, WA 99224

**Dates:** June 17-21, 2024

# CSI and Forensic Investigation plus Photography Training

With the cooperation of the Spokane County Sheriff's Office, Sirchie is offering its comprehensive hands-on Forensic Investigation Training at the Spokane County Sheriff's Office Regional Training Center, 13033 W. Highway 902, Spokane, WA 99224.

This 5-day course covers state-of-the-art methods of identifying, recording, processing and preserving various types of evidence found at the scene of the crime. The program is geared for Hands-on use of equipment, materials and supplies necessary for a thorough and comprehensive evidence collection mission.

## CURRICULUM

### Crime Scene Management

The various types and categories of physical evidence are reviewed with the emphasis being placed on the proper procedures for securing the crime scene and preparing to collect evidence.

### Fingerprint Theory and Classification

The fundamental principles of fingerprints are examined, including the basic concepts of ridge pattern development, identification characteristics and classification methods. Students will review latent print comparison methods with emphasis on understanding AFIS and modern latent print identification techniques.

### Latent Print Processing—Powders

The proper use of oxide, metallic, magnetic, and fluorescent powders is discussed. Students will develop latent prints on a variety of surfaces including paper, glass, plastic, and even textured surfaces. Students will experience lifting powder developed latent prints using tape, hinge lifters, gel lifters, and Accutrans. Utilizing photography and light source for proper documentation is reviewed.

### Latent Print Processing—Chemicals

During this segment, students will develop latent prints on porous surfaces, including paper and cardboard, utilizing iodine fuming, ninhydrin and silver nitrate. Students will review proper process sequencing for the maximum retrieval of latent prints and review the chemical principles of how they work. Cyanoacrylate (superglue) techniques for non-porous surfaces will be demonstrated also.

### Crime Scene and Evidence Photography

Procedures and techniques are discussed and demonstrated for properly documenting a crime scene through photography. Also reviewed and demonstrated are key camera settings such as aperture, shutter speed, and ISO, as well as proper accessories and equipment for properly capturing evidence quality photos.

### Serial Number Restoration

Working with various metallic and plastic surfaces, students will restore obliterated serial numbers. Liquid and gel reagents are used in conjunction with the electron accelerator.

### Firearms, Ballistics, and Gun Shot Residue

Identification of firearms and the fundamentals of ammunition and its manufacture, behavior, and destructive effects is discussed. Fundamentals of gunshot residue, including determining proximity and presumptive testing for GSR are reviewed and demonstrated. Students will also be exposed to basic shooting reconstruction and proper documentation of shooting incidents.

### Alternate Lights and RUVIS

The use of alternate light sources to identify evidence at the scene as well as enhance contrast with fingerprint powders and chemicals is reviewed. RUVIS, using the SIRCHIE Krimesite Imager, will be used to demonstrate a non-intrusive technique for discovering latent prints at the crime scene without powders or chemicals.

### Biological Evidence - Blood, Fluids, and DNA

Students learn proper methods to locate, identify, and collect physiological fluid stains. Proper search methods including alternate light sources and chemical search methods including luminol and Bluestar are demonstrated. Students will also learn how to presumptively identify the type of stain using chemical reagents. Collection and preservation methods will be reviewed based on the latest best practices for DNA.

### Footprint, Tire, and Toolmark Impression Evidence

Impression evidence types and their value in criminal investigation will be reviewed. Students will learn and experience methods for capturing footwear tread impressions, including magnetic powder development, electrostatic dust print lifting, and dental stone casting. Principles of footwear and tire comparison will be shown, including proper documentation for the lab and court.

### Review and Final Examination

A comprehensive examination will be given at the end of the course, covering materials discussed and demonstrated. Students also investigate a mock crime scene as teams and present their findings over lunch on the last day.

### 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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The recommended hotels are Northern Quest Resort and the Ramada Wyndham Spokane Airport Hotel.

Nearest airport is Spokane International Airport and it's only a 10-minute drive to the training center and hotels.

