

Sirchie Training Programs

**2016
Schedule**

***Ballistics
Investigation
Lecture now
included in our
week long
Evidence
Collection
Course***

SIRCHIE[®]
EDUCATION AND TRAINING



EVIDENCE COLLECTION COURSE

Many law enforcement agencies have many responsibilities when protecting and serving the public interest. These various responsibilities limit budgets and strain personnel. With this understanding, SIRCHIE delivers comprehensive crime scene training that is both practical and economic.

Over the past 50 years, Sirchie has trained thousands of law enforcement professionals from around the globe. Our Evidence Collection Accelerated Training Program provides you with hands on training with limited class sizes in our state of the art facilities. This class, commonly known as Crime Scene Technology, covers the scientific methods of collection, identification, evaluation, and preservation of physical evidence.

You should attend this class if:

- **You process crime scenes.**
- **You want to learn more about the latest tools and techniques used to process crime scenes.**
- **You want to find as much evidence as possible at the crime scene.**

Sirchie instructors are passionate about developing expertise with the latest crime scene technology and passing their knowledge of proper use on to you. Our instructors discuss real world scenarios you may face in the field and are available as a reference for you after completion of your class if you have questions.

Sirchie's Evidence Collection Course has been approved for "POST" (Peace Officer Standards and Training) Credit or for Continuing Police Education Credits in a number of states. Please contact our Training Coordinator at (800) 356-7311 or training@sirchie.com for more information and a complete list of participating states.

Course Fee

The Evidence Collection Course (No. CST100) tuition fee is \$600.00 per student which covers tuition, study materials, and lab fees. Upon completion of the course, students will receive a certificate, class photo and a graduate, polo-style shirt.

Transportation, food and lodging costs are the responsibility of the student.

Limited Class Size



A small student/instructor ratio creates an excellent learning environment and gives students more individual attention.

State-of-the-Art Facilities



Students will have the opportunity to use the latest equipment in our all new, dedicated training facility.

Hands-on Training



Students will get hands-on experience with processes and equipment used in the evidence collection field.

2016 Schedule

Jan. 11-15

July 11-15

Feb. 8-12

Aug. 15-19

Mar. 7-11

Sept. 12-16

Apr. 11-15

Oct. 10-14

May 16-20

Nov. 14-18

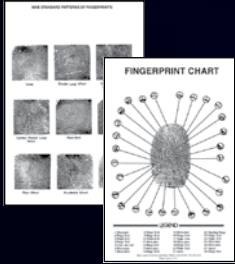
June 6-10

EVIDENCE COLLECTION COURSE CURRICULUM



Crime Scene Investigation

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.



Fingerprint Development — 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.



Processing Latent Prints with 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 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.



Controlled Substances Identification

Students will work with presumptive field test kits that offer screening of the most commonly abused drugs and narcotics.



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 and Ballistics

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 Crimesite Imager, will be used to demonstrate a non-intrusive technique for discovering latent prints at the crime scene without powders or chemicals.



Physiological Fluids

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.



Digital Forensics

Proper collection of digital devices, including computers and cell phones, will be reviewed. Students will learn the fundamentals, including data that can be extracted from these devices, the legal aspects of data, and ways to preserve data through proper packaging and Faraday techniques.



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.

Bloodstain Pattern Documentation Course

Throughout the United States and certainly in smaller departments, the crime scene technician faces the complexities of homicide scenes without the proper support or training. Like all forensic disciplines, Bloodstain Pattern Analysis is only useful if the patterns are captured and sampled properly. Students of our other popular Crime Scene Technology and fingerprint classes have requested this training; therefore, **SIRCHIE**, in conjunction with **BEVEL, GARDNER & ASSOCIATES INC.**, is pleased to offer this bloodstain analysis curriculum. Class size is limited, so register as soon as possible.

“This 4-day, hands-on course is intended for crime scene investigators/technicians—introducing the student to the nature and value of bloodstain pattern evidence; teaching the student to recognize basic pattern types and demonstrating through practical exercise the Roadmapping method of documenting bloodstain pattern evidence. At the conclusion of the course, the student will be able to recognize basic bloodstain pattern types and be familiar through practice with a proven method of documenting bloodstains for future analysis.”

Ross M. Gardner



Day 1

- **Introduction and Registration** (30 mins)
- **Recognizing the Value of Bloodstain Patterns** (3 hrs)
This lecture format is designed to introduce the student to the basic pattern types, their value to the investigation and how to recognize the patterns based on physical characteristics.
- **Pattern Recognition Practical** (1 hr)
This is a practical exercise in which the students view various patterns and are asked to identify the basic pattern type.
- **A Review of Basic Crime Scene Documentation** (1.5 hrs)
This is a lecture on basic crime scene documentation aspects, with emphasis on crime scene photography techniques (e.g., camera control, lighting, and the three basic crime scene photographs).
- **Applying the Roadmapping Method for Bloodstain Documentation** (2 hrs)
This is a lecture and demonstration of the “Roadmapping” methodology.



Students will learn to recognize discrete bloodstain patterns and understand their value to the investigative process.

Day 2

- **Group Practical** (2 hrs)
Small groups (4-5 students) document a bloodstain scene utilizing the Roadmapping methodology.
- **Roadmapping Practical Peer Review** (1.5 hrs)
Student groups present their documentation effort to the class and instructor.
- **Impact Pattern Documentation for Subsequent Analysis** (1.5 hrs)
This is a lecture of a method for documenting impact patterns for subsequent Area of Origin (AO) analysis by another expert. The lecture will include an explanation of AO as well as both physical and virtual stringing techniques used to define AO.
- **Group Practical—Documenting Impact Patterns** (1 hr)
Groups apply Impact Pattern documentation methods.
- **Impact Pattern Practical Review** (1 hr)
Student groups present their documentation effort to the class and instructor.



Understanding and applying the Roadmapping technique for documenting bloodstain patterns is a significant aspect of the various practical exercises students engage in during the course. This will include impact pattern documentation procedures that allow later analysis of Area of Origin.

Bloodstain Pattern Documentation (cont')

Day 3

- **Group Practical—Road Mapping** (2 hrs)
Small groups (4-5 students) document a bloodstain scene utilizing the Roadmapping methodology.
- **Roadmapping Practical Peer Review** (1.5 hrs)
Student groups present their documentation effort to the class and instructor.
- **Enhancement of Latent Bloodstain Patterns** (1.5 hrs)
This is a lecture on the use of varying enhancement techniques and photography of latent bloodstain patterns.
- **Enhancement of Bloodstain Patterns Practical** (2 hrs)
Student groups practice the use of luminol to enhance latent bloodstain patterns and learn basic photographic techniques.
- **Pattern Recognition Test**
Students' individual skill in patterns recognition will be tested using a 15 pattern visual test.



Students will learn how to utilize various blood enhancement techniques and will have the opportunity to apply this knowledge in practical exercise.

Day 4

- **Presumptive Testing of Bloodstain Patterns** (2 hrs)
Lecture and practical on using basic presumptive tests to determine the nature of a suspected stain.
- **Group Practical—Complex Scene Documentation Practical** (2 hrs)
Groups apply Impact Pattern Documentation methods.
- **Group Practical Review** (2 hrs)
Groups present their documentation efforts to the class and instructor. They will be expected to identify the basic patterns present in their scenes in addition to demonstrating proper application of the Roadmapping method.
- **Course Evaluation Methods**
Pattern recognition will be tested through a pattern recognition test. Photography and documentation will be tested through practical exercise.



Recognition of basic patterns is only part of the crime scene investigator's responsibility. Students will also learn to use blood presumptive tests and proper DNA collection procedures.

Course Dates & Fee

The Bloodstain Pattern Documentation Course (No. BPA100) will be held on-site at Sirchie's facility in Youngsville, NC the following dates: **November 7th-10th, 2016**. The course cost is \$525.00 per student which includes tuition, study materials and lab fees. **Transportation, food and lodging are the responsibility of the student.**

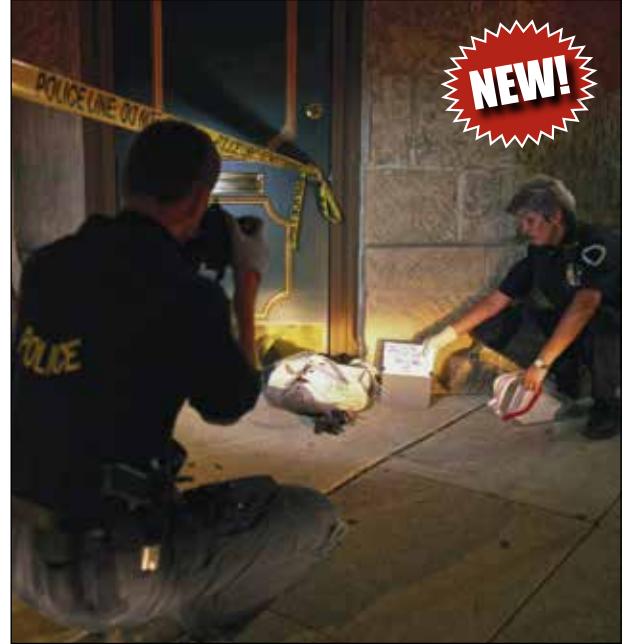
Comprehensive Crime Scene Photography Course

Crime scene photography remains one of the most important aspects of any criminal investigation. Whereas notes and sketches document items of interest that the investigator recognizes and records, a properly trained crime scene photographer will record everything of significance at a crime scene that is visualized in the viewfinder. A permanent recording can prove invaluable days, months, and even years after the crime scene has been released by law enforcement. Failure to obtain images while at the crime scene, or in a laboratory setting, that properly portray the item(s) of evidence in the lab, or piece of evidence at the scene, will likely result in the photograph not being accepted by the court, and thus being deemed unsuitable for presentation to the jury.

This 5-day course is designed for all personnel in the judicial process who are charged with taking crime scene photographs and/or presenting the images in judicial and administrative proceedings. The comprehensive course is also designed for instructors charged with teaching proper photographic techniques to crime scene personnel, or students interested in entering this, or a related field. *The course involves classroom lecture on photography theory and concepts followed by hands-on exercises. Nikon® equipment will be provided, so all students are operating identical equipment. Note: Students should bring a new, unused 8GB or larger high-speed USB storage device if they would like to keep the images they expose during training.*

The student will leave the course with:

- A high-level of understanding of digital cameras
- Techniques for capturing quality images under various conditions
- Acceptable standards for documenting crime scenes and physical evidence via photography



Instructor Profile

David Pauly retired from the U.S. Army Criminal Investigation Command as a Special Agent-in-Charge/Commander and Forensic Science Officer. He holds a Master of Forensic Science degree from George Washington University and is currently the Director of Applied Forensic Science at Methodist University, Fayetteville, NC. He graduated the FBI National Academy (Session 195), Canadian Police College Major Crimes Course, Miami-Dade Police Department Bloodstain Interpretation Course, and National Fire Academy Arson Investigation Course. He is a member or affiliate of the following organizations: American Academy of Forensic Science, IAI, North Carolina Chapters of the IAI and FBINAA, IABPA, Vidocq Society, and American Investigative Society of Cold Cases (AISOC).

Day 1

- **Introduction and Registration (1 hr)**
Students and the instructor will discuss experiences and trends with crime scene photography.
- **Basic Crime Scene Documentation, Legal Standards, NAS Report, and NIST OSAC (1 hr)**
This lecture will review crime scene documentation concepts and the legal standards for admissibility of photographs in court.
- **Photography Concepts, Terminology, and Basic Camera Operation (4 hrs)**
Students will learn basic camera concepts, the exposure triangle, electromagnetic spectrum of light, formatting a proper image, lighting techniques, terminology, and common settings on the digital camera. Students will learn how to take the camera out of the "automatic" mode so they can maximize the capabilities of the digital camera. Students will learn to download images for presentation and the impact of digital compression (TIFF, RAW, JPEG).
- **Practical Exercise (1 hr)**
Students will be divided into pairs and assigned exercises with a Nikon® D7000 camera kit in order to familiarize themselves with camera settings.



Students will learn how to document crime scenes with photography by applying knowledge of photographic concepts as well as legal standards for admissibility in court.

Comprehensive Crime Scene Photography (cont')

Day 2

- **Review Concepts and Images from Day 1** (1 hr)
- **F/Stops and Aperture, Practical Exercise and Review of Images** (2 hrs)
During this lecture the student will be taught the importance of f/stops, the effects on the photographic image, and conduct exercises to reinforce the lecture. Students will download images to a computer for presentation and class critique.
- **Shutter Settings, Practical Exercise, and Review of Images** (2 hrs)
During this lecture the student will be taught the effects of changing shutter speed, and conduct exercises designed to reinforce the lecture. Following the exercise students will present their images to the class and discuss techniques utilized during the capture of their images. Students will download images to a computer for presentation and class critique.
- **ISO, Practical Exercise, and Review of Images** (2 hrs)



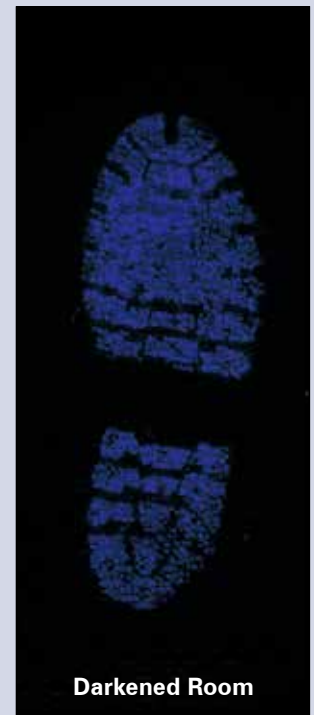
Students will participate in practical exercises utilizing **Nikon**® equipment common to many CSI units.

Day 3

- **Painting with Light** (1 hr)
This lecture will expose students to the concepts and effects of various lighting, ISO settings, dark scene photography and painting with light, as well as taking photographs of victims of crime.
- **Practical Exercise and Review** (2 hrs)
Students will conduct practical exercises to reinforce concepts discussed during the previous lecture. Students will download images to a computer for presentation and class critique.
- **Luminol and Impression Evidence Photography** (1 hr)
This lecture will expose students to the concepts of photographing chemically-enhanced blood evidence (luminol-based and related products), as well as, foot and tire impression evidence.
- **Practical Exercise and Review** (2 hrs)
Students will conduct practical exercises to reinforce concepts discussed during the previous lecture. Students will download images to a computer for presentation and class critique.
- **Review of Days 1, 2, and 3** (1 hr)



Normal Light



Darkened Room

Students will learn how to photograph suspected blood enhanced with Luminol utilizing the proper equipment and techniques.

Comprehensive Crime Scene Photography (cont')

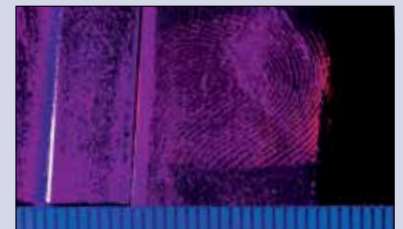
Day 4

- **Effects of Lighting, Filter Selection, Vehicle 360's, and Body Panoramic Images** (1 hr)
- **Practical Exercise** (2 hrs)
Students will conduct practical exercises to reinforce concepts discussed during the previous lecture, followed by presentation of the images for class review and critique.
- **On and Off Camera Flash Photography, Metering, and Practical Exercise** (2 hrs)
Students will learn how to effectively utilize the camera's light meter, on and off camera flash units, followed by practical exercises and presentation of the images for class review and critique.
- **Evening Mock Crime Scene, Laser Trajectory, and Painting with Light (PWL) Exercise** (3 hrs)
During this evening session students will work in teams to image a low light mock crime scene using PWL and Flash Techniques, coupled by use of a high powered laser to simulate crime scene reconstruction of bullet trajectory.



Day 5

- **Review of All Previous Lessons and Practical Exercises** (1 hr)
- **Surveillance Photography, Practical Exercise, and Review of Images** (2 hrs)
During this lecture students will be exposed to the nuances of surveillance photography for capturing subjects from a distance, and scenes involving confined spaces, such as the interior of a vehicle, trunk, or closet. Students will complete a comprehensive practical exercise utilizing fixed "prime" focal lengths of 14mm, 18mm, 24mm, and an assortment of variable "zoom" lenses from 18mm-135mm, 200mm, 300mm, and 400mm focal lengths. Images taken during the exercise will be presented to the class for review and critique.
- **Macro Photography, Filters, Ultraviolet (UV) and Infrared (IR), and ALS Photography** (3 hrs)
This lecture will expose students to the concepts of photographing small items close-up, such as bullet casings, stria from recovered bullets, fingerprints and other trace evidence. During this exercise students will experiment with crime scene lights of various colors used to identify serological, fiber, and other trace evidence, and will be exposed to IR and UV photography while utilizing the latest FujiFilm X-T1IR Mirrorless UV/IR Digital Camera.
- **Course Summary, Critique, and Discussion** (1 hr)



Course Dates & Fee

The Comprehensive Crime Scene Photography Course (No. CCP300) will be held on-site at Sirchie's facility in Youngsville, NC the following dates: **March 7th-11th, and October 10th-14th, 2016**. The course cost is \$585.00 per student which includes tuition, study materials and lab fees. **Transportation, food and lodging are the responsibility of the student.**

Sirchie Sponsored Fingerprint Classes

Fingerprint identification science remains the backbone of law enforcement criminal record and case identification. Whether you are interested in becoming a fingerprint technician, a latent print examiner seeking advanced training, or an AFIS operator desiring to improve your knowledge and skill set, Sirchie has a fingerprint class to meet your needs.

We sponsor five courses:

- Introduction to the Science of Fingerprints
- Basic Latent Fingerprint Comparison
- Advanced Latent Ridgeology
- Advanced Latent Palm Print Comparison
- Mastering the "Comparison Phase" of the IAI Latent Certification Exam

These 40 hour courses are conducted over 5 days at our dedicated training facilities in Youngsville, NC. Class sizes are kept small to ensure individualized attention, with an emphasis on practical hands-on instruction.

Please note: The three Latent Courses are ideal for initial training, continuing education, or refresher training.



Instructor Profile

Johnny Leonard is a retired Deputy Director of the City-County Bureau of Identification in Raleigh, NC and is both an I.A.I. Certified Latent Print Examiner and Footwear Examiner. He has also worked for the FBI and the NC State Bureau of Investigation. He has been a latent fingerprint examiner for the past 30 years and has over 40 years of fingerprint experience. He has been a fingerprint instructor for the past 33 years and has trained hundreds of students in the science of fingerprints.

Introduction to the Science of Fingerprints

The science of fingerprint identification is based on the uniqueness and permanence of friction ridge structures. Therefore, the ability of the technician to accurately classify and identify fingerprint patterns is essential.

The student will learn fundamental techniques of fingerprint pattern interpretation and how this information is used to accurately classify, compare, and identify fingerprints.

Curriculum

- Arch, Loop, and Whorl recognition and classification
- Scars and Amps recognition and classification
- NCIC classification formula
- The ACE-V methodology of fingerprint comparison and identification & its relationship to scientific method
- Inked fingerprint comparison exercises
- Glossary of Fingerprint Terms

This course is taught using numerous methods of instruction combining lectures with hands on assignments, Q&A, reinforcing quizzes, and practical exercises.

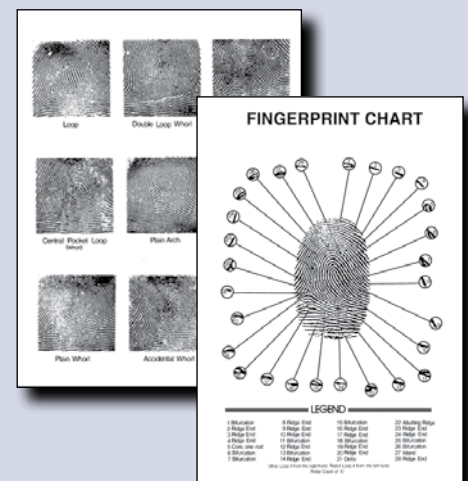
Note: This course is not a latent print comparison class, and uses inked fingerprints. This training is vital for any individual who wishes to pursue a career as a fingerprint examiner and is a prerequisite for enrollment in the Latent Fingerprint classes.

Course Fee

The tuition fee for the *Introduction to the Science of Fingerprints* course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The *Introduction to the Science of Fingerprints* course (No. CFC100) will be held **January 25th-29th** and **July 18th-22nd, 2016**.



Sirchie Sponsored Fingerprint Classes

Basic Latent Fingerprint Comparison

Combining lecture and latent print practical exercises, the emphasis in this course is placed on print orientation to improve each student's comparison skills. Exercises are designed to provide the student with real life case work training experience.

Minimum Requirement: Each student must have attended and completed Introduction to the Science of Fingerprints Course to be accepted in this course.

Curriculum

- The ACE-V methodology of fingerprint comparison and identification & its relationship to scientific method
- Level 1, level 2, and level 3 detail in latent print comparisons
- Latent print orientation and comparison search clues
- Fingerprint pattern interpretation and their uses in the comparison of latent fingerprints
- Palm print orientation and palm print search clues in latent print comparisons
- Daubert and post Brandon Mayfield issues

Course Fee

The tuition fee for the **Basic Latent Fingerprint Comparison** course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The **Basic Latent Fingerprint Comparison** course (No. LFC100) will be held **March 14th-18th** and **August 22nd-26th, 2016**.



Advanced Latent Ridgeology

Combining lecture and latent print practical exercises, emphasis is placed on comparison techniques for comparing difficult and complex latent finger and palm prints. Exercises are designed to provide the student with real life case work training experience.

Minimum Requirement: Each student must have attended and completed a Basic Latent Fingerprint Comparison Course to be accepted in this course.

Curriculum

- The ACE-V methodology of fingerprint comparison and identification & its relationship to scientific method
- Level 1, level 2, and level 3 detail in latent print comparisons
- Latent print orientation and comparison search clues
- Fingerprint pattern interpretation and their uses in the comparison of latent fingerprints
- Palm print orientation and palm print search clues in latent print comparisons
- The analysis of distorted and complex latent prints
- Daubert and post Brandon Mayfield issues

Course Fee

The tuition fee for the **Advanced Latent Ridgeology** course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The **Advanced Latent Ridgeology** course (No. AFP100) will be held **April 25th-29th** and **September 26th-30th, 2016**.



Sirchie Sponsored Fingerprint Classes

Advanced Latent Palm Print Comparison

Many students have expressed the difficulty in comparing latent palm prints and asked for a course that addresses this and simulates routine case work type training. This course was developed to meet these needs through combining lecture and latent print practical exercises.

Minimum Requirement: Each student must have attended and completed a Basic Latent Fingerprint Comparison Course to be accepted in this course.

Curriculum

- The ACE-V methodology of fingerprint comparison and identification & its relationship to scientific method
- Palm print topography and its use in comparisons
- Palm print points of direction, areas, and zones
- Major and Minor Flexion Creases
- Palm print orientation and palm print search clues in latent print comparisons

Course Fee

The tuition fee for the *Advanced Latent Palm Print Comparison* course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The *Advanced Latent Palm Print Comparison* course (No. PPC100) will be held **June 27th-July 1st** and **October 31st-November 4th, 2016**.



Mastering the IAI Latent Print Exam

Examiners who are preparing to take the Latent Print Certification exam are often concerned with the comparison phase of the exam. Their concerns center on running out of time and not completing the necessary 12 identifications in the allotted 8 hours. This class is offered to help latent examiners overcome this fear.

Emphasis is placed on recognizing valuable search clues when comparing latent finger and palm prints.

Valuable tips are shared to help improve time management skills during the exam. Numerous timed exercises containing latent prints similar in difficulty to the IAI exam are administered and evaluated.

Additional information is provided to aid students during the pattern recognition and written portions of the exam.

Minimum Requirement: Each student must have at least one year of Latent print experience to be accepted in this course.

Curriculum

- How to overcome anxiety about the test
- Time management skills that work
- How to maximize your comparison skills
- Learning to work smarter and not harder

Course Fee

The tuition fee for the *Mastering the IAI Exam* course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The *Mastering the IAI Exam* course (No. MCP100) will be held **May 9th-13th** and **September 19th-23th, 2016**.



Sirchie Sponsored Fingerprint and Mobile Forensics Classes

Comprehensive Advanced Latent Print Comparison

How proficient are your individual comparison skills as pertaining to latent print casework? Are erroneous exclusions a problem in your skill set? If you are a manager are erroneous exclusions a problem in your latent print work unit? This class was developed to help improve latent comparison competency and knowledge whether you are already a Certified Latent Print Examiner or if you are preparing to take the exam in the near future. A broad and exhaustive level of complex latent print exercises were carefully compiled to improve the level of expertise for examiners. You will not find another class like this one anywhere.

Minimum Requirement: Each student must have at least one year of Latent print experience to be accepted in this course.

Curriculum

- Reducing erroneous exclusions in casework
- Maximizing accurate latent comparison skills
- Developing confidence in your comparison decisions
- Real life casework type comparison exercises

Course Fee

The tuition fee for the **Comprehensive Advanced Latent Print Comparison** course is \$600.00 per student which includes study materials. Please bring your magnifier should you have one and if not one will be provided for the duration of the class.

Course Dates

The **Comprehensive Advanced Latent Print Comparison** course (No. CLP100) will be held **March 28th-April 1st** and **December 5th-9th, 2016**.



Mobile Forensics—Collection and Investigation

Today it is almost impossible to conduct a criminal investigation without experiencing a mobile device. Investigators must know how to properly collect mobile devices, what information can be found on them, and how to preserve and present this information for cases. Through this course, students will gain knowledge about the structure of mobile devices, understand the terminology, and complete hands on exercises to emphasize data extraction techniques as well as proper collection and preservation. Students will also learn the legal aspects of mobile data and what information can be obtained from sources such as service providers as well as backups and third party applications.

Curriculum

- Mobile device terminology
- Understanding cellular networks and service providers
- Fundamentals of cell phones and tablets function
- Legal aspects and requirements for evidence data collection
- Requesting and analyzing call data records (CDRs)
- Proper collection and preservation of mobile devices
- Logical and physical analysis of cell phones using forensic tools
- Data collection from other sources: SIM cards, backups, third party apps
- Understanding data and presentation as evidence for court



Course Fees and Dates

The Mobile Forensics Course will be held on-site at Sirchie's facility in Youngsville, and the course dates are TBD (**call for details**).

The course cost is \$450.00 per student which includes tuition, study materials and lab fees. **Transportation, food and lodging are the responsibility of the student.**

Forensic Firearm and Toolmark Identification Classes

Forensic Firearm and Toolmark Identification and Shooting Reconstruction

This advanced course/seminar will introduce the students to the methods used by firearm and toolmark examiners in the examination of large caliber fired bullets such as .45 caliber, various rifle and various shotshell components; large caliber cartridge cases and various types of toolmarks including pry bars, screwdrivers, knives and cutting type tools. The students will learn how examiners obtain class information that may aid investigators in searching for a firearm or tool that has been used in the commission of a crime including how a fired bullet, cartridge case or tool may be matched to a particular firearm or tool. The course will also explore the reconstruction of shooting incidents, including determinations of the range, direction of fire and the identification of gunshot residues. The course will include many hands on exercises, including a mock crime scene and vehicle shooting reconstruction.



Instructor Profile

Don Mikko spent most of his career as a Special Agent in the United States Army Criminal Investigation Command (USACIDC). He has been a Forensic Firearm and Toolmark Examiner since 1990 and spent twenty-two years at the United States Army Crime Laboratory (USACIL). He served as the Director of the Atlanta Police Department Crime Laboratory. He is certified by the Association of Firearm and Toolmark Examiners (AFTE) in all three forensic disciplines, which includes firearms, toolmarks and gunshot residue. Don has trained as well as consulted within the discipline for over 20 years.

DAY 1 (Introduction to and History of Firearms)

- History of firearms manufacturing
- Anatomy of firearms
- Firearm function and mechanism of ammunition / science
- Firearm examination, functionality testing
- General rifling concepts
- Characteristics of fired bullets, comparison microscopy

DAY 2 (Firearms Cont' / Toolmark Identification)

- Review of tool mark types
- Lock picking and related concepts
- Bolt cutters and other entry methods
- Casting and recording of tool marks
- Serial number restoration

Course Fees

The course cost is \$700.00 per student which includes tuition, study materials and lab fees. ***Transportation, food and lodging costs are the responsibility of the student.***

Course Dates

Forensic Firearm and Toolmark Identification and Shooting Reconstruction course will be held **April 4th-8th, 2016.**

DAY 3 (Crime Scene Processing)

- GSR analysis
- Shotgun patterns
- Handgun patterns
- Shooting reconstruction methods and equipment
- Courtroom testimony

DAY 4

- Review of actual case studies and practical exercises

DAY 5

- Shooting reconstruction of an automobile

Sirchie Sponsored Footwear Impression Classes

Phase 1 - Detection, Recovery and Identification

Footwear impression evidence is the most overlooked evidence at crime scenes. Criminals will often wear gloves or wipe down objects that they touch at crime scenes but rarely do they remove their shoes or intentionally destroy the evidence left by their shoes. An article published in Evidence Technology Magazine stated that many European police agencies are reporting footwear evidence being collected in over 70% of their cases. This class will hopefully encourage crime scene examiners to be more diligent about detecting and recovering footwear impression evidence.

In this course, the student will get hands-on training for the proper processing, photographing, lifting, casting, and preservation of footwear impression evidence. Footwear manufacturing techniques and the preparation of known exemplars will be demonstrated and conducted. Students will have the opportunity to conduct numerous footwear practical exercises to illustrate information presented in class.

This class is designed for crime scene examiners who would like to obtain training in not only the recovery of footwear impressions but also the examination of unknown footwear impressions against known standards. Also, if you are a footwear examiner looking for valuable training this is the class for you.

Instructor Profile

Johnny Leonard is a retired Deputy Director of the City-County Bureau of Identification in Raleigh, NC and is both an I.A.I. Certified Latent Print Examiner and Footwear Examiner. He has also worked for the FBI and the NC State Bureau of Investigation. He has been a latent fingerprint examiner for the past 30 years and has over 41 years of fingerprint experience. During the past 34 years he has instructed over 110 classes and trained more than 1000 students in the science of fingerprints.

Curriculum

- Processing and recovery of two-dimensional footwear impressions
- Casting of three-dimensional footwear impressions
- Obtaining known footwear standards
- Footwear manufacturing processes
- Understanding wear, class, and unique characteristics
- Comparison of questioned impressions with known standards

Course Fees

The course cost is \$600.00 per student with class size limited to 20 students. Please bring your magnifier should you have one and if not, one will be provided for the duration of the class. Transportation, food and lodging costs are the responsibility of the student.

Course Dates

Phase 1- Detection, Recovery and Identification course (No. FTW100) will be held **February 22nd-26th** and **July 25th-29th, 2016**.



Sirchie Sponsored Footwear Impression Classes

Phase 2 - Examination, Comparison & Identification

Minimum Requirements: Must have completed the Phase 1 – Sirchie Footwear Impression Course, a basic Detection, Documentation, Collection and Preservation of Track Evidence Course or any Crime Scene Investigation Course will suffice.

As stated in an article published in Evidence Technology Magazine, and written by Tom Adair, footwear impressions can tell us about both the criminal and the crime. He goes on to state that we may be able to determine the make and style of shoe, and even the identity of the shoe to the exclusion of all others in the world. In this course, the student will get hands-on training in the comparison of footwear impression evidence. Please note that this class is not a detection and recovery of footwear evidence class. This class is designed primarily to allow footwear examiners the opportunity to conduct countless practical exercises in the examination, comparison and identification of footwear evidence.

Instructor Profile

Johnny Leonard is a retired Deputy Director of the City-County Bureau of Identification in Raleigh, NC and is both an I.A.I. Certified Latent Print Examiner and Footwear Examiner. He has also worked for the FBI and the NC State Bureau of Investigation. He has been a latent fingerprint examiner for the past 30 years and has over 41 years of fingerprint experience. During the past 34 years he has instructed over 110 classes and trained more than 1000 students in the science of fingerprints.

Curriculum

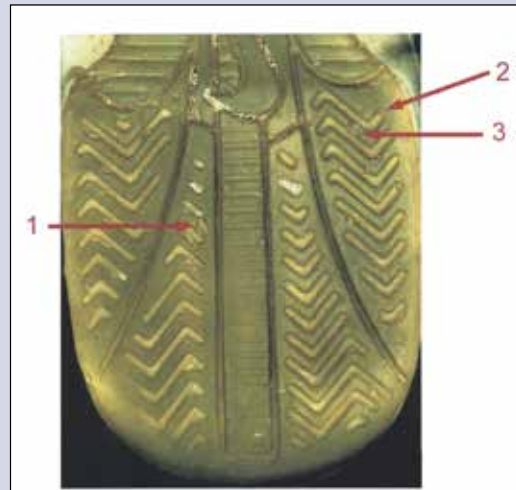
- Understanding wear, class, unique characteristics
- How to apply ACE-V during footwear comparisons
- Comparison of questioned impressions with known standards
- Understanding SWGTREAD guidelines
- Report writing and documentation

Course Fees

The course cost is \$600.00 per student with class size limited to 20 students. Please bring your magnifier should you have one and if not, one will be provided for the duration of the class. Transportation, food and lodging costs are the responsibility of the student.

Course Dates

Phase 2- Examination, Comparison & Identification course (No. FTW200) will be held **April 4th-8th** and **October 3rd-7th, 2016**.



Sirchie Course Registration

To enroll in any of our courses please call our Training Coordinator at (800) 356-7311, email at training@sirchie.com or register online at <http://www.sirchie.com/training.html>. All cancellations made **at least 11 business days prior to class will be refundable**. Cancellations made **10 or less business days prior to class will not be refundable**. The instructor reserves the right to cancel the class due to lack of enrollment with all tuition refunded.

Onsite Training Location

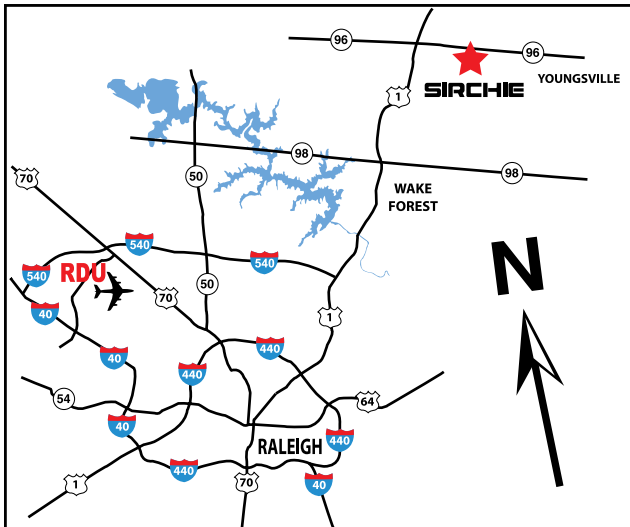
Our onsite classes are held at our all new, dedicated training facilities at our headquarters in Youngsville, NC, located a short drive from Raleigh and RDU International Airport.

Transportation

Raleigh is served by several major airlines through the Raleigh/Durham International Airport, which is just a short drive from Sirchie's training complex. Transportation from hotels to the training center is normally provided by the student.

Accommodations

There are a number of hotels in the area. Please call our Training Coordinator at (800) 356-7311 or email at training@sirchie.com for a complete list.



Raleigh area map showing RDU and proximity to Sirchie's Headquarters



Sirchie's all new training facility in Youngsville, North Carolina

Department Hosted Training

Sirchie works with departments and agencies around the world to develop and deliver training sessions on location at their facilities. Visit the training section of our website at <http://www.sirchie.com/training.html> to see the most up to date schedule for these events. Please contact us at (800) 356-7311 to learn more or if your agency is interested in hosting a training session.

SIRCHIE[®] EDUCATION & TRAINING
100 Hunter Place, Youngsville, North Carolina 27596
Phone: 800.356.7311, 919.554.2244
Email: training@sirchie.com
www.sirchie.com