

# TABLE OF CONTENTS



**CRIME SCENE DO NOT CROSS**

**Specialized Training 1-8**

**GSR, Serial Number Restoration & Trace Metal 277-284**

**Latent Fingerprint Development 9-102**

**NARK® Presumptive Drug Analysis 285-292**

**RUVIS Systems 103-116**

**Tire, Tool, Footwear Casting & Impressions 293-312**

**Alternate Light Sources 117-136**

**Ductless Fume Hoods & Drying Cabinets 313-324**

**Evidence Packaging, Labeling & Sealing 137-166**

**Fingerprint Taking 325-368**

**Personal Protection 167-178**

**Magnifiers & Comparators 369-386**

**Crime Scene Documentation/Photography 179-224**

**Digital Forensics 387-392**

**Evidence Collection Tools & Kits 225-244**

**Theft & Fraud Detection 393-408**

**Physiological Specimen/DNA Collection 245-262**

**Special-Purpose Vehicles 409-432**

**Blood Search, ID & Enhancement 263-276**

**Laboratory Equipment 433**



# Innovative Solutions

**SIRCHIE®** is committed to providing the law enforcement community with the latest innovations in criminal investigation. This catalog has many new and exciting offerings—below are some of the highlights.



We now offer DNA Free fingerprint powders, brushes & kits (see page 18).



The LABKAM® RUVIS Capture System now has full 1000 ppi image capture capability (see page 110).



We now offer a full line of barrier filter glasses and camera lens filters to compliment the use of our alternate light sources (see page 135).



We now carry MicroMax® NS coveralls (see page 172).



Use SIRCHMARK™ evidence marking products at outdoor or indoor crime scenes (see page 195).



The M-VAC DNA Retrieval System is the latest in DNA specimen collection (see page 258).



Sirchie now offers several new NARK® II test pouches for the latest synthetic substances (see page 285).



The FOCOS2™ Dual Camera Forensic Comparator utilizes high resolution cameras, a touch screen monitor, and CSIpix™ software (see page 384).



Control your periscope surveillance camera from any internet enabled phone or tablet with The IP Netscope™ (see page 430).

# Introduction to Specialized Training Courses

## Specialized Training

Commitment to providing high quality forensic science and criminal investigation training is ingrained in the DNA of Sirchie. Building off our principles of Tradition, Expertise, and Excellence, Sirchie's Education and Training Division offers a variety of training opportunities with courses structured to meet the global law enforcement community's particular needs.

In addition to our fundamental commitment to training and integration of the latest technologies into our offerings, **SIRCHIE®**:

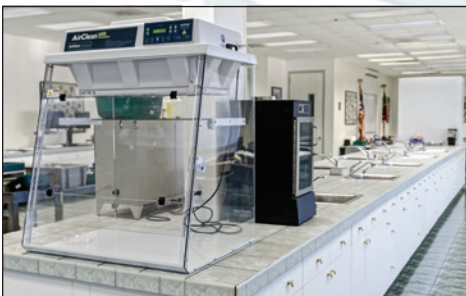
- Features hands on training where you work with the latest products, whether you attend on site at our dedicated training facilities or we come to you and provide training solutions
- Provides training from our dedicated, internationally recognized forensic science instructors
- Listens to you and develops training offerings that meet your needs and enhance your knowledge base

Law enforcement professionals operate in an increasingly complex environment where budgets are tight, crime scenes are complicated, and the public you serve and protect counts on you to make the cases you investigate lead to justice. We know this and Sirchie is committed to helping you by delivering training solutions that enhance your skills.

***There are several options we make available to you to acquire the training you need. These options include:***

- Training at Sirchie headquarters in our dedicated training facilities.
- Training at host departments and organizations around the world.
- Specialized Sirchie Product Instruction
- Distance Education

*Along with the extensive product offerings and customized law enforcement vehicle lines contained within this catalog, training is a core offering of the Sirchie Criminal Investigation Total Solutions package. Training is interwoven throughout the process and in the front of our minds as we develop and deliver quality solutions to the organizations and individuals who protect and police the communities they serve around the world. This alone sets us apart as you can rely on Sirchie to provide you high quality training that continues to feature the latest technologies, techniques, and procedures.*





## Specialized Training

### LIMITED CLASS SIZE



*A small student/instructor ratio creates a better learning atmosphere and gives students more individual attention.*

### STATE-OF-THE-ART FACILITIES



*Our dedicated training facilities are equipped with the latest forensic equipment and materials.*

### HANDS-ON TRAINING



*Students pictured working with RUVIS technology to locate untreated prints on non-porous surfaces.*

***For Current Schedule, please visit [www.sirchie.com](http://www.sirchie.com) and navigate to the training section or call us at (800) 356-7311 and ask for the Training Coordinator.***

## Onsite Training

Sirchie's onsite training offerings provide you with hands on training with limited class sizes in our state of the art facilities. 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.

### EVIDENCE COLLECTION ACCELERATED TRAINING PROGRAM

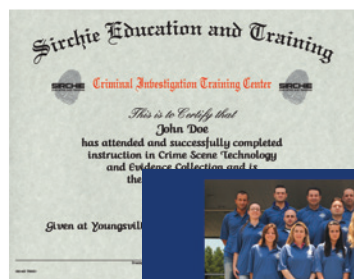
This class, commonly known as Crime Scene Technology, covers the scientific methods of collection, identification, evaluation, and preservation of physical evidence.

#### ***You need to attend this program 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

#### ***This comprehensive program includes instruction in:***

1. Crime Scene Investigation
2. Fingerprint Theory
3. Fingerprint Powders
4. Locating and Processing Latent Prints
5. Fingerprint Taking Techniques
6. Fingerprint Classification and Comparison
7. Basic Photography
8. Physiological Fluids
9. Controlled Substances Identification
10. Theft Detection Techniques
11. Serial Number Restoration
12. Firearms Residue Collection
13. Footprint Casting, Footwear Processing & Recognition
14. Course Review and Final Examination



*Upon completion of the course, students will receive a certificate and class picture.*



*All training materials and a crime scene technology graduate shirt will be supplied to all students.*

## 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.



## 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.

**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.



## 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 a Basic Fingerprint Comparison Course to be accepted in this course.



**For Current Schedule, please visit [www.sirchie.com](http://www.sirchie.com) and navigate to the training section or call us at (800) 356-7311 and ask for the Training Coordinator.**

### Curriculum

- Loop Recognition and Classification, including Ridge Counting
- Whorl Recognition and Classification, including Delta Tracing
- Arch Recognition and Classification
- Complete Henry Classification Formula from Primary to Key
- Scars and Amps Recognition and Classification
- NCIC Classification Formula
- Glossary of Fingerprint Terms
- Ten-print Card Classification and Evaluation
- Course Review and Final Examination

### Curriculum

- The ACE-V methodology of latent print comparison and identification
- 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

## Curriculum

- The ACE-V methodology of latent print comparison and identification
- 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

## Curriculum

- The ACE-V methodology of latent print comparison and identification
- 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

## 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

**For Current  
Schedule, please visit  
[www.sirchie.com](http://www.sirchie.com) and  
navigate to the training  
section or call us at  
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the Training Coordinator.**

## 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.



## ADVANCED LATENT PALM PRINT COMPARISON

Many students have expressed the difficulty in comparing latent palm prints. This course was developed to overcome these difficulties through combining lecture and latent print practical exercises, simulating routine case work.

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



## MASTERING THE "COMPARISON PHASE" OF THE IAI LATENT CERTIFICATION EXAM

Examiners who are preparing to take the Latent Print Certification exam are often concerned with the comparison phase of the exam. Their concerns include 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 Requirements:** Each student must have at least two years of Latent print experience to be accepted in this course.



## 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.



## 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.

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.

### ***The student will leave the course with:***

- the ability to recognize basic bloodstain pattern types
- the knowledge of a proven method of documenting bloodstains for future analysis.

## CURRICULUM

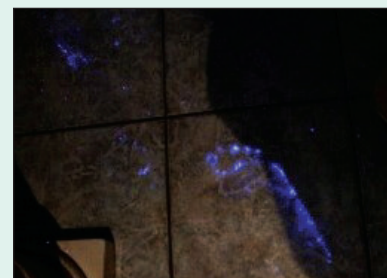
- Introduction and Registration
- Recognizing the Value of Bloodstain Patterns
- Pattern Recognition Practical
- A Review of Basic Crime Scene Documentation
- Applying the Roadmapping Method for Bloodstain Documentation
- Group Practical
- Roadmapping Practical Peer Review
- Impact Pattern Documentation for Subsequent Analysis
- Group Practical—Documenting Impact Patterns
- Impact Pattern Practical Review
- Group Practical—Roadmapping
- Roadmapping Practical Peer Review
- Enhancement of Latent Bloodstain Patterns
- Enhancement of Bloodstain Patterns Practical
- Pattern Recognition Test
- Presumptive Testing of Bloodstain Patterns
- Group Practical—Complex Scene Documentation Practical
- Group Practical Review
- Course Evaluation Methods



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



*Understanding and applying the Road-mapping 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.*



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



*Crime scene photography remains one of the most important aspects of crime scene and criminal investigation. Notes and sketches document only items of evidence and interest that the investigator recognizes and records. However, proper use of a camera can capture everything of significance at a crime scene that is contained in the viewfinder. This permanent recording can prove invaluable days, months, and even years after the crime scene has been released by law enforcement. Surveys of those charged with documenting crime scenes continually reveal the lack of basic skills in operating a digital camera and thus obtaining relevant photographs suitable for presentation in courtroom proceedings.*



*Students will participate in practical exercises utilizing **Nikon®** equipment.*

### CRIME SCENE PHOTOGRAPHY – PHASE 1 COURSE

This 3-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 course is taught with classroom lecture on photography concepts followed by hands-on exercises. Nikon® equipment (supplied by Penn Camera) common to many CSI units will be utilized. Note: Students should bring a new, unused 2 gig or larger USB “stick” Drive 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

#### **CURRICULUM**

- Introduction and Registration
- Basic Crime Scene Documentation, Legal Standards and Implication of the *NAS Report* for Crime Scene Photography
- Photography Concepts, Terminology and Basic Camera Operation
- Practical Exercise
- Review from Day 1
- F/Stops and Aperture, Practical Exercise and Review of Images
- Shutter Settings, Practical Exercise and Review of Images
- ISO, Lighting, Filter Selection, Painting with Light and Body Panoramic Images
- Practical Exercise and Review
- Luminol and Impression Evidence Photography
- Practical Exercise and Review
- Course Summary, Critique and Discussion

### CRIME SCENE PHOTOGRAPHY – PHASE 2 COURSE

The Phase II, 3-day course is hands-on, practical exercise intensive, and is designed for personnel with a basic understanding of the exposure triangle, crime scene photography, and camera functions. Students will review concepts learned during Phase I and expand to include on and off camera flash photography, metering, surveillance and macro photography, focusing, and photographing images with colored filters and crime scene search lights. Students will image both indoor and outdoor crime scenes (weather permitting) during the day and night. Students will photograph a large outdoor mock crime scene intended to simulate a fatal automobile collision, or shooting crime scene during the night. This outdoor scene will be during low or dark conditions and utilize PWL techniques. Nikon equipment common to many CSI units, narcotics/drug enforcement officers, and detectives will be utilized.

#### **CURRICULUM**

- Updates on Legal Standards, SWGIT, and the NAS Report as it applies to Crime Scene Photography
- Photography Concepts, Terminology, and Basic Camera Operation Review
- On and Off Camera Flash Photography
- Surveillance Photography and Macro Photography, Practical Exercise, and Review of Images
- Filters and ALS Photography
- Evening Mock Crime Scene and (Painting With Light) PWL
- Indoor (artificial light and low light conditions), and Outdoor Mock Crime Scenes



NARK® and NARK®II Narcotic Field Test Training courses will acquaint students and instructors with the history of presumptive field testing, correct interpretation of colors, proper safety precautions, proper disposal techniques and recommended evidence handling. Courses will utilize lectures, PowerPoint® presentations, practical exercises, handout materials and real-life examples for instructor/student learning and participation.

This 4-hour course is designed for the uniformed patrol officer or narcotic investigator with ANY level of narcotics identification experience. The goal is to develop an understanding of narcotics presumptive tests, the most commonly used tests and their correct usage in order to facilitate the identification of controlled substances and prepare the officer for court presentation. Call for more information and pricing.

This 6-hour course is designed for the Department Instructor with a strong working knowledge of narcotics and preferably with the previous experience of the Certification Training Course. The goal is to train department instructors on the proper usage and handling of presumptive field tests for the purpose of instructing their own uniformed patrol officers and investigators. Call for more information and pricing.

This RUVIS Certification Training Course, conducted at your facility, is a full day of hands-on, classroom style training that covers a broad range of topics relating to the KRIMESITE™ IMAGER and related accessories. This extremely thorough course is applicable to all RUVIS Systems.

Both a practical and written exam will be given at the end of the training day. Upon successful completion of this course, **SIRCHIE®** will send each attendee a printed certificate of training.

Overview of RUVIS Technology; Crime Scene/Laboratory Use; Footwear Impression Techniques; Proper UV Safety and DNA Protection; RUVIS Search Techniques; Digital Photography; Assembly, Care and Cleaning of Equipment.

Sirchie develops and delivers several training sessions around the country and the world working with host agencies and departments. Please visit the Evidence Collection page, <http://www.sirchie.com/training/trainingprograms/evidence-collection-training-program.html> to see the most up to date schedule for these events.



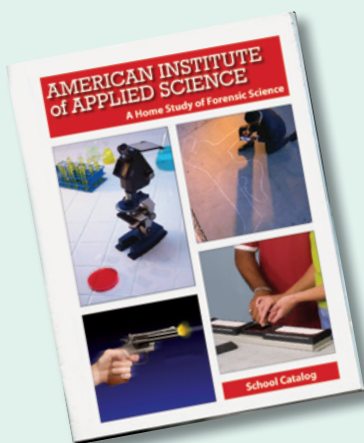
***For more information  
regarding "School on the  
Road" training, call us at  
(800) 356-7311  
and ask for the Training  
Coordinator.***

### AMERICAN INSTITUTE of APPLIED SCIENCE

- Founded in 1916
- Licensed by the North Carolina Community College System
- Accredited by the Accrediting Commission of the Distance Education & Training Council (DETC)
- DANTES approved for active duty & reserve personnel
- VA approved for veterans

### Home Study Courses in Criminal Investigation and Forensic Science:

- Criminal Investigation
- Modus Operandi
- Firearms Identification
- Questioned Documents (Handwriting Comparison)
- Police Photography
- Fingerprint Classification & Identification (including Henry Classification with the FBI Extensions)
- Fingerprint Recording and Latent Print Development
- Fundamentals of Forensic Science
- Arson & Explosion Investigation
- Trace Evidence
- Blood in Criminal Investigations (DNA)
- Investigations into Drugs & Alcohol



Call for more info, pricing  
and your FREE Catalog!

### AMERICAN INSTITUTE OF APPLIED SCIENCE

Law enforcement and private investigative agencies are continuously in need of personnel who are knowledgeable in the various aspects of forensic investigation. The American Institute of Applied Science exists to aid in fulfilling this need.

The American Institute of Applied Science developed the home-study correspondence course expressly for students who work full-time or are active in other full-time educational programs. Students have the opportunity to learn at their own pace, without strict deadlines.

The courses offered are designed to teach criminology and basic forensics to students who are new to the subject, or to experienced investigators who are interested in using the information to complement their on-the-job experiences.

Thousands of men and women have achieved professional success as well as personal fulfillment in careers which began with graduation from the American Institute of Applied Science. Thousands of AIAS graduates are law enforcement professionals who hold important positions in the field of criminal identification and forensic science. Over 350 Law Enforcement agencies throughout the world accept this program for positions in identification bureaus and crime labs.

Our student body includes students from all across the United States and from many foreign countries. Our training in the field of fingerprints has been accepted by the Latent Print Examiners Certification Board of the International Association for Identification, the world's largest association of I.D. Specialists.



**For more information visit us on the web at [www.aiasinc.com](http://www.aiasinc.com)  
or call us at  
(800) 354-5134 or (919) 554-2500**