



## Ron Smith & Associates, Inc.

# INTRODUCTION TO THE SCIENCE OF FRICTION RIDGE EXAMINATION



The knowledge of how to evaluate, compare and identify friction skin is accomplished through many hours of training and experience that involves independent study and one on one mentoring by an expert. This course is designed to start that process through a series of lectures, practical exercises and drills that are specifically designed to increase the student's knowledge and foster confidence in the usefulness of the science and their ability to use it. Many different facets of friction skin examination will be explored and the challenges associated with the science will be discussed in detail. Each participant will understand the principles underlying the science and as a result, they should have a practical, functional knowledge of how to examine friction skin upon completion of the course. The course starts by teaching the "language" of friction skin examination and pattern recognition. Then the student will learn how to use all three "levels of detail" and apply ACE-V methodology as the basis for the examination process.

## Target Audience

This course has been designed with many different groups in mind and is suited for law enforcement personnel and students who are new to forensics as well as law enforcement personnel and students who are already familiar with forensic identification matters including experienced Tenprint and Latent Print examiners who are already conducting examinations or are being trained to do so. Because of the scope of material covered, this course is beneficial for all but the seasoned examiners and it can serve as an excellent introduction into the science for those of other disciplines, particularly crime scene personnel. Law enforcement personnel will be able to return to work and immediately use this training to continue their development as examiners. Students would be able to apply for jobs that require such training as a requirement. Other professionals involved in both the academic and judicial systems would also benefit as they would receive a broad overview of the science without having to put it to practical use.

## Course Objectives:

- Understand and be able to use current terminology for the fingerprint science (the language of the science).
- Fully classify fingerprint cards using the NCIC and IAFIS codes and understand the Henry classification system as it is used today.
- Accurately determine the proper pattern type of a fingerprint, especially for use with an AFIS.
- Begin to properly determine the "Value" or suitability of a fingerprint for comparison.
- Understand all three levels of detail and begin to accurately compare friction skin using them.
- Properly use ACE - V. methodology to make decisions during the examination process with real friction skin of various types, tips, joints, ect
- Understand the significance of recording "good" fingerprints at the time of booking or capture.



**Class Instructor:**  
**Mike Campbell**



## Logistics & Registration Info

### When:

May 11 - 15, 2020

*5 Days = 40 Training Hours*

### Class Times:

08:00am TO 05:00pm

### Where:

Champaign Police Department

82 E. University Avenue, 3rd Floor

Champaign, IL 61820

Parking pass at police dept. front desk

### Tuition Cost:

\$600.00



This course is approved for  
IAI Certification and Re-certification for  
Latent Print Examiners  
& Tenprint Examiners.

## Local Class Contact

Sergeant Jaceson Yandell

Champaign Police Department

217-403-7021

[jaceson.yandell@champaignil.gov](mailto:jaceson.yandell@champaignil.gov)

# Daily Class Schedule

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
HOUR 1	- Registration - Course Overview - Introductions	Understanding Loop Patterns "Ridge Flows"	Understanding Arch Pattern "Ridge Flows"	Unique and Persistent	Physiology of Friction Skin
HOUR 2	History behind the use of fingerprints for identification purposes. "The Pioneers"	Ulnar - Radial Right Slant Left Slant	Plain Arches vs. Tented Arches	Three Level's of Detail Used in Examinations	Understanding ACE-V Methodology
HOUR 3	Areas Containing Friction Skin	Sufficient Recurve and the Core	Arch Pattern Recognition Exercises	"Searching Smart First" Concepts	Significance of the Analysis Phase
HOUR 4	Review of Fingerprint Classification Systems	Delta Formations	Understanding Whorl Pattern "Ridge Flows"	Level One Searching Exercise	Conclusions: Comparison & Evaluation Phases
LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
HOUR 5	Overview of all 3 Major Fingerprint Families and an Introduction to all 8 Pattern Types with Definitions	Intervening Ridges	Whorl Pattern Interpretations & Tracing Values	Understanding and Using Level Two Detail	Search and Comparison Exercises
HOUR 6		Counting Ridges	Whorl Pattern Recognition Exercises	Level Two Exercises	The Impact of AFIS Systems & "AFIS Quality"
HOUR 7	Pattern Types and the FBI IAFIS Code	Loop Pattern Recognition Exercises	-NCIC Codes - NCIC Exercises	Exposure to Level Three Details	Final Comparison Exercise
HOUR 8	IAFIS Review & Classification Exercise		Effects of Disease, Scarring, & Mutilations	Comaparison Exercises	Review of Final Exercises & Awarding of Certificates

## Must Bring to Class

Each student must bring a fingerprint magnifier, ridge counters are encouraged but optional and a notebook . Dress is business casual as the course will be conducted in a professional environment and facility.

## Online Class Registration

Visit us at: [www.RonSmithandAssociates.com](http://www.RonSmithandAssociates.com) to reserve your seat.

## Lodging Information

*Although we cannot endorse any particular hotel property, we have confirmed that the following lodging is within a reasonable commuting distance to the training site.*

Hyatt Place Champaign/Urbana

217 N. Neil Street

Champaign, IL 61820

217-531-2800

[Click for online reservations](#)

### About RS&A Training Services

For over twenty years, Ron Smith, and now Ron Smith & Associates, Inc. has provided high quality forensic training courses throughout the United States and around the world. By building a team of internationally regarded instructors to work hand in hand with our full time Training Division support staff, RS&A has developed a delivery system second to none in the industry. Over 25,000 students have received training from RS&A and that number grows significantly every year. This training has been brought to forensic specialists in all fifty states and continues to be the primary resource for forensic training in North America.

**Ron Smith & Associates, Inc. (RS&A)** is a team of forensic scientists, business professionals, educators and IT experts that works in unity to develop industry changing forensic products and services. RS&A is your #1 source for Forensic Training, Forensic Consulting, Proficiency Testing, and Quality Management Services. We have been providing quality forensic products and services since 2002! **If you would like to learn more about what RS&A has to offer, be sure to visit us online at [www.RonSmithandAssociates.com](http://www.RonSmithandAssociates.com)**

