

# RON SMITH AND ASSOCIATES, INC.

## INTRODUCTION TO THE SCIENCE OF FRICTION RIDGE EXAMINATION

Knoxville, TN | October 16-20, 2017



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

**5 Day Course**

**40 Training Hours**

**\$600.00 Tuition**

**This course is approved  
for IAI certification and  
recertification purposes**



**RS&A recommends  
taking our classes in  
order of our Sequential  
Training Curriculum**

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COURSE BROCHURE**

### CLASS CONTACT

Lieutenant Vincent Ayub  
Knoxville Police Department  
865-740-0215  
vayub@knoxville.tn.gov

### CLASS LOCATION

Knoxville Public Works Complex  
3131 Morris Avenue, Room 210  
Knoxville, TN 37909  
Class Times: 08:00 a.m. to 05:00 p.m.

### 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.

Hampton Inn & Suites Knoxville Papermill Drive  
601 N. Weisgarber Rd.  
Knoxville, TN 37917  
865-693-5400

[Click here for reservations](#)

Holiday Inn Express  
6324 Papermill Dr.  
Knoxville, TN 37919  
865-824-9030

[Click here for reservations](#)

### 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 10 Print 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.

### SPECIAL NOTES FOR STUDENTS

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.

### REGISTER AND PAY TUITION ONLINE

Training registration and tuition fees can now be completed online in the new RS&A e-Store!

- Online registration is fast and easy!
- Pay class tuition using your credit card, request an invoice, or choose check by mail.

Visit [www.RonSmithandAssociates.com/Training](http://www.RonSmithandAssociates.com/Training) to select your class and register online today!

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### COURSE DESCRIPTION

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.

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### SHOULD BE ABLE TO PERFORM

At the completion of the course the student will be able to perform the following:

- \* 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, etc....
- \* Understand the significance of recording "good" fingerprints at the time of booking or capture

### MUST BRING TO CLASS

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### DAILY SCHEDULE

	Day 1	Day 2	Day 3	Day 4	Day 5
Hour 1	Registration Course Overview Introductions	Understanding Loop Pattern "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 Levels Of Detail Used in Examinations	Understanding ACE -V Methodology
Hour 3	Areas Containing Friction Skin	Sufficient Recurve And The Core	<b>Arch Pattern Recognition Exercises</b>	"Searching Smart First" Concepts	Significance of the Analysis Phase <b>Analysis Exercise</b>
Hour 4	Review of Finger- print Classification Systems	Delta Formations	Understanding Whorl Pattern "Ridge Flows"	<b>Level One Searching Exercise</b>	Conclusions: Com- parison & Evalua- tion Phases
Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
Hour 5	Overview of all 3 Major Fingerprint Families And an Introduc- tion To All 8	Intervening Ridges	Whorl Pattern Interpretations & Tracing Values	Understanding and Using Level Two Detail	<b>Search and Com- parison Exercises</b>
Hour 6	Pattern Types w/definitions	Counting Ridges	<b>Whorl Pattern Recognition Exercises</b>	<b>Level Two Exercises</b>	The Impact of AFIS Systems & "AFIS Quality"
Hour 7	Pattern Types and The FBI IAFIS Code	<b>Loop Pattern Recognition Exercises</b>	NCIC Codes <b>NCIC Exercises</b>	Exposure to Level Three Details	<b>Final Comparison Exercise</b>
Hour 8	<b>IAFIS Review &amp; Classification Exercise</b>		Effects of Disease, Scarring & Mutilations	<b>Comparison Exercises</b>	Review of Final Exercise and Awarding of Cert.

### I.A.I. APPROVED TRAINING HOURS

This course provides 40 training hours and is approved for IAI Certification and re-certification.

