



# RON SMITH & ASSOCIATES, INC.

## COMPLEX LATENT PRINT EXAMINATION

### Course Description

This course is designed to assist the examiner in understanding the complexity of friction ridge detail. Students will learn valuable searching smart skills that can be applied for all areas of friction ridge examination. An overview of the detail of friction ridge skin of the fingers and palms and then will progress into the areas of tonal reversal, mirror prints, overlapping prints, distorted prints, etc. Even with the most challenging friction ridge detail, there are usually visual clues that can be used in the analysis and comparison process. Step by step instructions and practical exercises in the ACE-V Methodology will give the students more insight to assist them in properly analyzing these complex prints.

Not all friction ridge detail left behind at crimes scenes are from the hand area. Did you ever consider that it could have come from friction ridge detail found on the foot? Did you know that our feet have friction ridge detail that has unique features? A presentation will be given to discuss the unique friction ridge detail found on our feet.

Part of the scientific process is documenting the analysis based on observed "objective" data. Students will be presented the SWGFAST Documenting the ACE-V Standard and then will be given a practical exercise containing various latent prints to document their analysis.

How do Frye, Daubert and Kumho affect you? What are some of the questions you can expect at a "Daubert Hearing?" What resources do you have available to assist you in responding to a Plaza style challenge to the science of fingerprints? What is a Plaza challenge? What resources do you have available for your personal development in the science? What resources do you have at your disposal in establishing guidelines for your latent print unit? All these questions and more will be answered during this intense week of presentations, comparison exercises, conducted both individually and as a group (bring those magnifiers), and a "hands on" application of much of the material presented.

What has happened since the National Academy of Science (NAS) in their released report? We will be discussing the impact this report has had and continues to have on examiners.

### Instruction Includes

Students will receive instructions on:

- Searching Smart techniques
- Palm Print location/orientation
- Analyzing complex prints such as tonal reversed, image reversed, overlay, pressure distortion issues, etc.)
- Footprint Ridge Detail
- Daubert issues
- SWGFAST ACE-V Methodology Standard
- SWGFAST Documentation Standard



**Class Instructor:**  
**Debbie Benningfield**  
**CLPE**



### Course Logistics

**When:**

December 8-12, 2025

**Class Times:**

08:00 AM - 05:00 PM

**Where:**

Junior Lifeguards Building  
901 E. Oceanfront  
Newport Beach, CA 92663

**Tuition:**

\$650.00

***This course approved for  
I.A.I. Certification & Re-certification***

### Local Contact

Tracy McKenzie

Sergeant

Newport Beach Police Department

949-644-3667

tmckenzie@nbpd.org

# Daily Schedule

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
Hour 1	Instructor & Student Intro	Fingerprint Analysis & Comparison Exercise continued	Review of Palm Print Comparison Exercise	Complex Print Comparison Exercise continued	SWGFAST/ OSACS Presentation
Hour 2	Scientific Basis of Friction Ridge Detail Presentation	Review of Fingerprint Exercise	Analyzing Complex Prints (distortion, tonal reversed, print overlay) Presentation		Daubert Trilogy Presentation
Hour 3	ACE-V Methodology Presentation	Palm Print Orientation & Location Presentation	Complex Practical Exercise	Review of Complex Comparison Exercise	
Hour 4	Reaching Conclusions Presentation (OSAC)			Friction Ridge Detail of the Feet Presentation and Comparison Exercise	Understanding Testimony Limitations Presentation (OSAC)
	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
Hour 5	Searching Smart (Fingerprints) Presentation	Palm Print Orientation & Location Comparison Exercise	Complex Print Comparison Exercise continued	Review of Footprint Comparison Exercise	Mayfield Case/Scientific Evidence Video
Hour 6	Crease Exercise			Case Documentation Requirements Presentation	Final Exam
Hour 7	Fingerprint Analysis &			Documentation Exercise	Final Exam Review
Hour 8	Comparison Exercise				Presentation of Certificates

## Target Audience

This course is primarily designed for the more experienced examiner by advancing to the comparison of more complex prints, e.g., distorted, multiple impression overlay, tonal reversed, etc. However, it still allows less experienced examiners gain valuable “time under the glass” by starting with the less difficult comparisons then proceed to the more complex prints at their own pace. Familiarity with basic fingerprint terms such as delta, core, pattern area, ridge events are important to understand prior to attending this course.

## Must Bring to Class

Magnifier(s), ridge counters, pen, red thin sharpie pen and paper. It is highly recommended that at least a 5x power magnifier be brought to the class.

Dress is business casual

## Should be Able to Perform

At the conclusion of this course students will know the value of searching smart and using visual clues to help analyze complex prints. They will learn how to document their findings using the SWGFAST Documenting the ACE-V Standard. They will also hear about the challenges in the legal system and their impact on their work as examiners. Finally, the students will learn about the IAI Latent Print Certification Program and the importance of achieving certification.

## Helpful 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.*

Holiday Inn Express Newport Beach

2300 West Coast Hwy.

Newport Beach, CA 92663

949-722-2999

[Please click here for reservations](#)

Renaissance Hotel

4500 MacArthur Blvd.

Newport Beach, CA 92660

800-468-3571

[Please click here for reservations](#)