

# **RON SMITH & ASSOCIATES, INC.**

### **ADVANCED SEQUENTIAL PROCESSING - A HANDS ON WORKSHOP**

### **Course Description**

The purpose of this four day workshop is to empower the student through realistic practical exercises to:

- Understand the initial role of the crime scene and evidence technician in signal recognition

- Řecognize the series of critical steps that detect and optimize evidence in the journey from scene to stand

- Receive, document and maintain the integrity of physical evidence while retaining it in possession for fingerprint examination

- Stay vigilant for, seize and protect other evidence that falls outside the fingerprint discipline

- Diagnose and triage the nature and composition of compound exhibits - Be familiar with the nature, application, target and mechanism of proven fingerprint detection methods currently in use

- Select the sequence of processes that will afford the maximum extraction of evidence, of all kinds on compound exhibits encountered during the investigation of a crime

- Apply these processes skillfully and in the correct order to achieve maximum evidence extraction

- Photograph impression evidence using atypical techniques, recording all the detail present

- Deliver knowledgeable effective testimony in court as to the continuity of the evidence, explain the mechanisms and limitations of the techniques employed and explain the decisions that led to the processes used to obtain evidence.

The students will be formed in two-person teams. Each will receive his/her own compound exhibits on Day 1, but will work as partners to confer and decide on strategy. Together, each team will select the appropriate sequence of actions, process the exhibits accordingly (Day 2), record their findings with a DSLR camera (Day 3) and be prepared to tender evidence in mock court on the final day, as to their actions and the chemistry and physics behind the procedures they have followed.

### **Target Audience**

All professionals who process crime scenes and/or exhibits for fingerprints, footwear impressions and other forms of physical evidence, encounter complex or compound exhibits, and strive to leave nothing behind.

All professionals who wish to learn to triage compound exhibits, select the appropriate number and order of examination procedures for any given Local Contact piece of evidence that will afford the best likelihood for recovery of all latent evidence.

All professionals who seek a deeper understanding of the mechanisms and range of the dominant fingerprint detection methods.

All forensic photographers who record impression evidence in preparation for comparison and/or AFIS search, and seek the tools to solve challenging recording situations that fall outside conventional photography.

All professionals who seek a realistic holistic training experience that comprises all facets of evidence assessment, protection, detection, recording, documenting and presenting, from crime scene to courtroom.



## **Course Logistics**

When:

November 18-21, 2025

### **Class Times:**

08:00 AM - 05:00 PM

### Where:

MCSO Training Center

2627 South 35th Avenue

Phoenix, AZ 85009

**Tuition:** \$650.00

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

Ashley Drummond **Forensic Scientist** 

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### Should be Able to Perform

The student will learn how to evaluate each piece of evidence, in many cases composed of several individual components, to record the condition of, to dismantle said pieces of evidence, to treat each component in such a way as to maximize the chances for evidence extraction without loss.

The student will learn how to record finger and shoe impressions that present challenges beyond routine photography, to employ such techniques as image subtraction, coaxial lighting, tent lighting, narrow band filtration, focus stacking and high dynamic range merge.

The student will learn how to tender evidence in court as to their actions, but above all, their professional strategic decisions as to technique selection and order.

### **Must Bring to Class**

- Lab coat or other personal protection clothing
- Suitable footwear for lab exercises (no open-toed shoes)
- Digital Single-lens Reflex Camera with a macro lens and tripod strongly suggested.

\*\* It is expected that not every student will be able to comply with this recommendation, and every attempt will be made to pair attendees without cameras with those who bring them. It will also be advantageous to have an orange barrier filter, compatible with the lens, for fluorescence photography.

- A laptop computer, loaded with any version of Photoshop (the later the better) will assist the student in viewing and digitally optimizing the evidence they have developed and photographed.

### Daily Schedule

Hours	SETUP DAY	DAY 1	DAY2	DAY 3	DAY 4
8:00-10:00		CLASSROOM	LAB	CLASSROOM	CLASSROOM
	CREATION OF	ISSUE OF	MIXING OF	PHOTOGRAPHIC	PHOTOSHOP
	EXHIBIT SETS	EXHIBITS	CHEMISTRY	TECHNIQUES	EXTENSIONS
		DNA STRATEGIES NOTES &	GROUPS PROCESSING	LAB	MOCKTRIAL
		CONTINUITY	EXHIBITS	IMPRESSSION PHOTOGRAPHY	
		CASE OBJECTIVES SIGNAL RECOGNITION			
		SCENE TO STAND			
10:00 – 10:30 Break					
10:30 - 12:00	LAB	DIAGNOSIS &TRIAGE			
	CONFIGURA- TION	FINGERPRINT COMPOSITION			
		SEQUENTIAL STRATEGY			
12:00 – 1:00 Lunch					
1:00 - 2:30		TECHNIQUES REVIEW			REVIEW
		LIGHT EXAMINATION			
2:30 – 3:00 Break					
3:00 - 4:00		PAPER, WOOD			EXAM
		NONPOROUS BLOOD			EXAM REVIEW
		STICKY SIDE	QUESTIONS & REVIEW	QUESTIONS & REVIEW	CERTIFICATES

### **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.

Hyatt Regency Phoenix 122 North 2nd Street Phoenix, AZ 85004 (602) 252-1234 Please Click Here for Reservations

### **SCENARIO & SEQUENTIAL PROCESSING WORKSHOP—OUTLINE**

#### Day 1 - Morning

- \* Opening Remarks
- \* Issue of exhibits, formation of teams
- \* PPT DNA connection
  - \* Case Objectives and Strategy
  - \* Signal recognition, scene to stand
  - \* Diagnosis & Triage
  - \* Fingerprint composition
  - \* Sequential strategy

#### Day 1—Afternoon

- \* PPT Techniques review
  - \* Light
  - \* Porous
  - \* Nonporous
  - \* Blood impressions
  - \* Sticky side
- \* Discussion and Work Review

#### Day 2—Morning

- \* Preparation of Chemistry
- \* Exhibit Processing

#### Day 2—Afternoon

- \* Exhibit Processing (cont)
- \* Discussion and Review

#### Day 3—Morning

- \* PPT Photographing impression evidence
- \* Photography of evidence developed (practical)

#### Day 3—Afternoon

- \* Continued
- \* Discussion and Review

#### Day 4—Morning

- \* PPT Photoshop extensions
- \* Results review
- \* Mock trial

#### Day 4—Afternoon

- \* Mock trial
- \* Review
- \* Exam
- \* Exam review
- \* Certificates