

RON SMITH AND ASSOCIATES, INC.**FORENSIC DIGITAL IMAGING FOR LATENT PRINT EXAMINERS: EXTEND YOUR REACH****Orange, CA | January 23-26, 2018**

**Class Instructor:
Brian Dalrymple,
CLPE**

4 Day Course

32 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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SEQUENTIAL TRAINING
CURRICULUM**



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COURSE BROCHURE**

CLASS CONTACT

Susan Moore, Supervising Forensic Specialist
Orange County Crime Lab, Cal-ID Bureau
714-834-6320
slm@occl.ocgov.com

CLASS LOCATION

Orange County Sheriff's Department
Katella Training Facility
1900 W. Katella Avenue
Orange, CA 92867
Class Time: 8:00 a.m. - 5:00 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.

Ayers Hotel Anaheim
2550 E. Katella Avenue
Anaheim, CA 92806
715-634-2106

Please advise hotel staff that your room reservation is for a training class at the Sheriff's Department

TARGET AUDIENCE

You should attend this course:

- * If you examine crime scenes and exhibits for fingerprints, shoeprints and other types of impression evidence
- * If you suspect that your images contain more critical information than chemistry and conventional photography alone can reveal
- * If you are unsure of the science or legal history behind digital techniques
- * If you do not understand digital theory
- * If you are unsure of the power and reliability of digital techniques
- * If your department is investigating the acquisition of image enhancement software
- * If you have an AFIS and wish to optimize the quality of impressions for search

SPECIAL NOTES FOR STUDENTS

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 to select your class and register online today!

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COURSE DESCRIPTION

Based on Adobe Photoshop, relevant plug-ins and other software, this four day workshop is designed to enable the attendee to understand and explain digital theory and methodology. Through extensive hands on exercises, to make an effective image diagnosis and to decide how and when to use these valuable tools in order to extract the maximum amount of information from problem images. We will also cover how to maintain the integrity of both images and procedures through tracking and documentation and present evidence in court.

Topics covered will include:

- * Essential digital theory and techniques
- * How to extract the maximum amount of information from problem images
- * Image diagnosis - how and when to use these valuable tools
- * Legal precedents
- * How to prepare to tender digital evidence
- * The featured software is Photoshop but other software options are also discussed.

Attendees will receive:

- * A tutorial & reference manual covering all information in the workshop
- * A DVD with more than 150 tutorial images and more
- * A custom demo/tutorial copy of ImagePro Plus
- * A certificate of completion

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DAILY SCHEDULE

| | Day 1 | Day 2 | Day 3 | Day 4 |
|--------|---|--|--|---|
| Hour 1 | Module I - Evolution - Analog v. Digital | Module III - Practical Assignments | Module III - Practical Assignments | Module IV - Image Integrity |
| Hour 2 | | | | |
| Hour 3 | BREAK | BREAK | BREAK | BREAK |
| Hour 4 | - Digital Glossary - Digital Advantages | - Practical Assignments | - Practical Assignments | - Image Calibration |
| Lunch | Lunch | Lunch | Lunch | Lunch |
| Hour 5 | Module II - Image Diagnosis | - Practical Assignments | - Practical Assignments | Module V - Court Preparations |
| Hour 6 | | | | |
| Hour 7 | BREAK | BREAK | BREAK | BREAK |
| Hour 8 | - Image Problems - Digital Tools | - Practical Assignments | - Practical Assignments | - Charting |

SHOULD BE ABLE TO PERFORM

At the completion of this workshop the attendee will:

- * Know and understand the reasons for the extended forensic reach afforded by digital technology
- * Navigate through and apply essential features of Adobe Photoshop
- * Diagnose and triage challenging evidence images
- * Know and understand the different color modes in which digital images may be opened and processed
- * Apply the tools of subtraction, channel blending and Fast Fourier Transform to optimize signal to noise ratio in images
- * Document and track changes and processes to preserve image integrity
- * Cite critical case law and legal precedents relevant to digital evidence

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Requirement for each attendee:

- * A laptop computer / Windows XP Professional or later / DVD Drive / 2 GB RAM recommended
- * USB wheel mouse
- * PowerPoint (not essential to attendance – used for charting, which is covered step-by-step in the workshop manual)
- * Adobe Photoshop CS3 or later (CS2 will work but some features of the class are not available in CS2. The latest version - fully operational demo can be downloaded from www.adobe.com just prior to the course for a 30 trial period.)
- * Although tutorial images will be provided, the student is strongly encouraged to bring a digital camera (preferably SLR) and a tripod. There is a digital photography assignment.

RECOMMENDED READING

Photoshop CS3 for Forensic Professionals, Reis, G., Sybex, 2007,

Understanding Forensic Digital Imaging, Blitzer, H., Stein-Ferguson, K., Huang, J., 2008, Academic Press

HOST A CLASS

If you would like to host this class the following facilities are needed:

- * A room with table and chair classroom style seating for 20 people
- * Video/PowerPoint projector and screen
- * Sufficient power outlets for laptops and projector
- * Whiteboard or Flip-chart

I.A.I. APPROVED TRAINING HOURS

This course provides 32 training hours and is approved for IAI Certification and re-certification.

