



# RON SMITH & ASSOCIATES, INC.



## Laboratory Photography for the Forensic Professional

### Course Description

Taking examination quality photographs of both processed and unprocessed latent print or footwear impressions in the laboratory comes with its own unique set of challenges. Laboratory photographers must have a deep understanding of various types of lenses, filters, light sources and accessories in order to properly compose and illuminate evidence for imaging during the various stages of sequential processing. This class will teach students about camera equipment, camera functions, correct exposure, light balance, forensic light sources, and other important considerations for taking quality comparison photographs. Additionally, students will complete hands-on exercises using a variety of cutting-edge photography equipment.

### Target Audience

This 40-hour class is designed for both new and experienced latent print examiners, laboratory technicians, forensic photographers, and other personnel who are responsible for photographing evidence and latent print impressions in a laboratory environment.

### Must Bring to Class

Students should bring a notebook or laptop for notetaking. Dress is business casual, as there will be practical exercises. Photography equipment will be provided.

### Course Topics Include:

- Introduction to fundamentals of photography
- Digital photography equipment
- Understanding camera controls and photography modes
- Exposure triangle, shutter speed, ISO, and aperture
- Lenses, focus and depth of field
- Image quality, resolution and image types
- Lighting techniques
- Light theory and use of forensic light sources
- Camera filters and full spectrum imaging (ultraviolet and infrared)
- Latent print photography and requirements for comparison quality photographs
- Overview of current forensic photography technology

### Training Partner

**foster+freeman**  
FORENSIC SCIENCE INNOVATION



**Class Instructor:**  
**Erik S. Malz, CLPE, CCSA**  


### Course Logistics

**When:**

December 9-13, 2024

**Class Times:**

08:00 AM - 05:00 PM

**Where:**

Hennepin County Sheriff's Office  
Training Room - East Wing  
531 Park Avenue South  
Minneapolis, MN 55415

**Tuition:**

\$650.00

### Local Contact

Melissa Hummel

Forensic Science Supervisor

Hennepin County Sheriff's Office

612-543-3788

Melissa.Hummel@hennepin.us

# Daily Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00 – 09:00	Registration, course overview, and introductions	Lecture: Light techniques, oblique and bounce lighting	Manual Photography Practical Exercises	Copy Stand Photography Practical Exercises & the DCS 5	Copy Stand Photography Practical Exercises & the DCS 5
09:00 – 10:00	Lecture: Introduction to digital photography	Lecture: Shutter speed, long exposure, and painting with light			
10:00 – 11:00		Lighting techniques demonstration			
11:00 – 12:00					
Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 – 14:00	Lecture: Manual photography and exposure control	Lecture: Light theory and alternate light sources	Copy Stand Photography Practical Exercises & the DCS 5	Copy Stand Photography Practical Exercises & the DCS 5	Copy Stand Practical Exercises
14:00 – 15:00		Lecture: Camera filters and full spectrum imaging			
15:00 – 16:00	Lecture: Lens function, focus, and depth of field	Lecture: Latent print and comparison quality photographs			Written Test
16:00 – 17:00					

## IAI Certification Credit:

- Latent Print Examiner Certification/Recertification – Approved
- Forensic Photography Certification/Recertification – Approved
- Crime Scene Certification/Recertification – Approved
- Footwear Examiner Certification/Recertification - Approved

## 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 Place Minneapolis/Downtown

425 South 7th Street

Minneapolis, MN 55415

612-333-3111

Please Click Here For Reservations

Moxy Minneapolis Downtown

247 Chicago Avenue South

Minneapolis, MN 55415

612-400-1810

Please Click Here For Reservations

Comments on Training Site:

Parking: Street metered parking and several parking ramps/lots close by. Limited parking may also be available on-site. Attendee Info: Building is secure, ring bell or contact local host to gain entry.

Classroom Info: Training room entrance is located on the Chicago Avenue Side of the building, 530 Chicago Avenue.

## Online Class Registration

Visit us at: [www.RonSmithandAssociates.com](http://www.RonSmithandAssociates.com) and register today!