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Courses are presented in partnership with the International Association for Identification.

ADA / Special Accommodations

To ensure we can accommodate persons with special needs who wish to attend our courses, please be sure to identify the accommodation needed when you register, or if applicable, at the time you register by phone.

Host a course

By hosting one of our courses, you will be providing your agency's personnel and the forensic professionals in your area with a high-quality training opportunity, right in your local area. This means less cost to you or your agency for expenses such as travel, lodging, and meals, and less time away from home and family. Plus, hosts can qualify for tuition savings. For more information, visit tritechtraining.com.



Photographic Documentation of Injuries Using the ALS

Instructor: Heidi Nichols, CFPH

May 31 - June 1, 2022 | 8 am - 5 pm

Tuition: \$369

Course Location:

Arapahoe County Sheriff's Office
13101 E. Broncos Parkway | Centennial, CO 80112

Lodging Information:

Holiday Inn & Suites Denver Tech Center - Centennial
6638 South Nome Street | Centennial, CO 80111
303-708-3000

Room Rate: \$99 plus tax | Free Breakfast, Wi-Fi, Parking (Request Breakfast voucher upon check in)

Booking Info: Call the hotel directly & mention the Arapahoe County Sheriff's Office Training to receive the special rate.



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ABOUT TRITECH

A leader in the forensics market, Tri-Tech Forensics provides evidence collection and crime scene investigation products and training to crime labs and crime scene investigators throughout the world. With over 30 years of experience, we are the nation's most proficient developer and manufacturer of forensic kits. We are committed to providing our customers with state-of-the-art forensics products and services at affordable prices. It is our goal, through our research and development program, to continue to develop superior products and training to aid in all aspects of crime scene investigation and crime lab analysis. We know how important our products and training are to the forensics community, from investigation to prosecution. Our mission is the same as our customers – *Identify. Protect. Preserve.*

COURSE DESCRIPTION

Photographic Documentation of Injuries Using the ALS

Investigators are frequently called upon to photograph injuries received by victims of violent crimes including domestic violence. This type of documentation is especially crucial in courtroom proceedings, especially where the victim's injuries are no longer apparent. By documenting these injuries, the trier(s) of fact in the case will have the opportunity to observe the victim's injuries and make a more informed judgement of guilt or innocence.

Alternate Light Sources (ALS) are tools that can permit investigators to locate, process, and photograph evidence that is otherwise invisible or that is difficult to see. Understanding how these devices work is helpful in applying them correctly at the crime scene or in the laboratory. This course begins with a discussion of the properties of light and luminescence and culminates in the use of the ALS to visualize and photograph items of evidence. A review of basic photography and the use more advanced photographic techniques to optimize image quality will be included.

The types of evidence on which ALS units are commonly utilized include fingerprint evidence, trace evidence (like hairs and fibers, narcotics, gunshot residue, and body fluids), and bodily injuries. This Photographic Documentation of Injuries Using the ALS course will concentrate on the latter.

Topics include:

- Basic Photography Review
- Introduction to Clinical Photography of Injuries
- Mechanics of Luminescence
- Understanding Fluorescence
- Understanding Phosphorescence
- Understanding how Fluorescence and Phosphorescence Differ
- Introduction to the Alternate Light Source
- Understanding How the ALS works
- Selection of Appropriate Light Sources including Cost Factors
- Techniques Used to Obtain the Best Possible Photographic Results
- Photography of Biological Fluids and Other Biological Materials using Luminescence
- Identifying False Positive Reactions
- Photography of Bodily Injuries using Absorption of Light
- Introduction to Injury Photography using Full-Spectrum Imaging

This course will heavily emphasize instruction using hands-on techniques. The students will photograph realistic evidence to observe the photographic results of the techniques learned and used in class.

This is an advanced course; students are expected to have an understanding of basic photography and camera operation prior to attendance.

COURSE INSTRUCTOR

HEIDI NICHOLAS, CFPH



Ms. Heidi Nichols earned her Bachelor of Arts Degree (BA) in Biomedical and Forensic Photography with minors in Biology and Diving Education from Barry University in Miami, Florida in 1999. Heidi has since been employed with the Miami-Dade County Medical Examiner Department as a Forensic Photographer, where she has gained extensive experience in autopsy and gross specimen photography, crime scene photography and taking photographs of evidence.

Ms. Nichols received her Master of Arts (MA) in Crisis, Emergency and Disaster Management from Florida International University in Miami, Florida in 2018. She is a member of Florida Emergency Mortuary Response System (FEMORS), a group of professionals trained in mass fatality response. Deployments have included Hurricanes Irma and Michael and the Pulse Nightclub shooting.

Ms. Nichols is also certified as a Forensic Photographer through the International Association for Identification (IAI), the world's oldest and largest forensic science/identification association, a certification she has

held since 2006. Ms. Nichols' photographs can be seen in numerous textbooks, and she also co-authored an article in 2010 entitled "Reflected Ultraviolet Digital Photography: The Part Someone Forgot to Mention" on the uses of Reflective Ultraviolet Photography in the Journal of Forensic Identification.