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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](http://tritechtraining.com).

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# **Custom Alternate Light Source Workshop**

**Instructor: Heidi Nichols, CFPH**

**February 18 - 19, 2020 | 8 am - 5 pm**

**Tuition: \$349**

#### **Location:**

Douglas County Sheriff's Office - Highlands Ranch Substation  
9250 Zotos Drive | Highlands Ranch, CO 80129

#### **Lodging Information:**

Hilton Garden Inn  
1050 Plaza Drive  
Highlands Ranch, CO 80126  
303-683-4100

**Room Rate:** \$120 per night plus tax (rate expires 30 days before course)

**Booking Info:** Call reservations at (800) 774-1500 and refer to Tri-Tech USA or booking code Tri220 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

# Custom Alternate Light Source Workshop

Alternate Light Sources (ALS) are tools that can permit investigators to locate, process, and photograph otherwise invisible evidence. 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.

Special emphasis in this custom course will be placed on the documentation of bodily injuries through the use of the ALS. Because different wavelengths of light interact with human skin differently, the ALS is ideally used to document bruising that occurs near the surface of the victim's skin. Sometimes certain wavelengths make bruises visible that are not otherwise clearly visible under normal lighting conditions.

Also demonstrated in this course will be reflective infrared photography. Through the use of specially modified cameras, forensic photographers can capture deep tissue bruising visible only in the infrared waveband of the spectrum of light. A variety of different types of Alternate Light Sources will be on-hand for use by the students. The ability to use different types of units will

permit students to judge which type of light source best suits their needs and will assist leadworkers in establishing their agency's protocols, procedures, and work-flow.

This course will heavily emphasize instruction using hands-on techniques. Due to the amount of hands-on training in this course, enrollment is limited to 20 students. Students are encouraged to bring the digital camera used in their work. This is an advanced course; students are expected to have an understanding of basic photography and camera operation prior to attendance.

Topics include:

- Basic Photography Review
- Properties of Light
- Selection of Cameras, Lenses, and Accessories
- Selection of Appropriate Light Sources including Cost Factors
- How to Obtain the Best Possible Photographic Results
- Photography of Evidence Using Luminescence and Reflective Light
- Using Full-Spectrum Light to Capture Images of Bruising and Other Injuries

## COURSE INSTRUCTOR

### HEIDI NICHOLS, CFPH

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 and crime scene photography. During her time at the Miami-Dade ME's office she has become an expert in the use of Alternate Light Source Photography and uses her knowledge to help other agencies to better understand and perform these techniques. In addition, Heidi provides lectures on Forensic Photography and provides training not only within the Medical Examiner Department but also with countless other outside agencies, including Immigration and Customs Enforcement, and Customs and Border Protection.

