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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).



# Forensic Ultraviolet & Infrared Photography

**August 27 - 29, 2018**

**TUITION: \$526**

**INSTRUCTOR: Heidi Nichold, CFPH**

#### LOCATION:

Des Moines Police Academy  
433 E. Army Post Rd.  
Des Moines, IA 50315

#### LODGING INFORMATION:

Ramada Inn  
(Courtesy Shuttle Available)  
1810 Army Post Rd., Des Moines, IA 50315  
515-287-6464

Room Rate: \$65 plus tax

Booking Info: Call the hotel and mention the Forensic Photography course or Booking Confirmation number 99450 to receive the special rate.

This course has been approved for 24 hours of certification/re-certification training credit by both the IAI Crime Scene Certification Board and the IAI Forensic Photography Certification Board. Please visit the IAI Certifications page at [tritechtraining.com](http://tritechtraining.com) for additional information.



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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

# Forensics Ultraviolet & Infrared Photography

While reflective infrared and ultraviolet photography techniques were discovered over 100 years ago, their use in forensics is not commonplace. This is due in part to the specialized equipment and techniques required to successfully capture useful images. This course will demystify the practice of taking reflective infrared and ultraviolet photographs with digital cameras and will provide the student with skills he or she can use in their work to assist in the investigation of criminal activity.

The human eye cannot see light in the infrared and ultraviolet wavebands of the spectrum. However, the properties of these types of radiation make it possible to capture images that cannot be captured using visible light. This makes infrared and ultraviolet photography capable of capturing images that might otherwise never be seen. In some cases, these images could make or break the case. Examples of some of the types of evidence that can be photographed with infrared and ultraviolet light include:

- latent footwear impressions
- fingerprints
- body fluids including blood
- pattern injuries including bitemarks

It is important to note that this type of photography cannot be accomplished with normal digital cameras.

Manufacturers take steps to prevent infrared and ultraviolet light from being recorded by their cameras. In order to succeed, the photographer must select the equipment that will yield usable results. This course includes a segment on different types of equipment that can be used to give useful results, including:

- camera selection including full-spectrum cameras and modified cameras
- lens selection
- filtration options
- light source options
- photography techniques
- reflective infrared
- reflective ultraviolet
- infrared (invisible) fluorescence

This course stresses hands-on exercises. Students will learn from actually photographing in the infrared and ultraviolet wavebands. Safety is stressed in every exercise.

Students attending this course should bring their full-spectrum camera to this course if they are so-equipped. For those who do not have full-spectrum cameras, several cameras will be on hand for use in the course.

## 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.

