

## **TRAINING: Processing and Reconstructing Shooting Crime Scenes**



This five day course uses classroom training, practical exercises and live shooting demonstrations to teach hands-on crime scene processing techniques to those responsible for documenting and interpreting shooting crime scenes. Participants from this course will receive a workbook that contains background information about the topics presented and a compact disk that will include data and photos generated during the class. Students are encouraged to bring a camera to record activities presented during the course. *This course is highly recommended for anyone who needs to process, document and understand crime scenes that involve the discharge of a firearm.*

**Date:** April 4-8, 2011  
**Location:** Spokane Police Dept. Range  
**Hours:** 8:00-17:00 M-F  
**Instructor:** Matthew Noedel  
**Cost:** \$800 per student (class limited to 12)  
**Contact:** Matthew Noedel 253.227.5880  
[www.noedelscientific.com](http://www.noedelscientific.com)  
[mnoedel@att.net](mailto:mnoedel@att.net)

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### Training Topics Include:

- Hand gun, rifle and shotgun ammunition construction, design and characteristics including specialty ammunition
- Basic math review as it applies to trajectory calculations
- Techniques for documenting and processing suspected bullet impact sites
- Understanding limitations and capabilities in evaluating bullet impacts
- Considerations of ricochet/bullet impact through glass, wood, building material
- Basic wound ballistics and blood stain evaluation
- Measuring recording and documenting trajectories with rods and lasers
- Practical shooting reconstruction exercises using real case examples
- Group presentations, Final Exam and Much More!



**For Details Contact:** 253.227.5880  
[www.noedelscientific.com](http://www.noedelscientific.com)  
or  
mnoedel@att.net

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## **Understanding and Processing Shooting Crime Scenes**

### **Topic: Firearm Related Crime Scene Examination**

This five day course uses classroom training, practical exercises and live shooting demonstrations to teach hands-on crime scene processing techniques to those responsible for documenting and interpreting shooting crime scenes. Participants from this course will receive data that contains background information about the topics presented and a compact disk that will include data generated from the class. Students are encouraged to bring a camera and scene documentation equipment that they may already have to practice with and record activities presented during the course.

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### **Course Outline/Topics Covered**

#### **Day 1**

8:00-9:00 Introductions  
9:00-11:00 Ammunition Considerations—Participants will be provided information on ammunition design and many examples of “specialty” ammunition will be disassembled, examined and discussed.  
11:00-12:00 Math Review for Trajectory Processing  
12:00-13:00 Lunch  
13:00-15:00 Chemical Processing—Lectures and practical processing of bullet strikes and impacts. Use of the instant shooter ID kit, GSR processing  
15:00-17:00 Practical Exercises to reinforce the topics presented

#### **Day 2**

8:00-9:00 Review and Questions  
9:00-12:00 Bullet Impact Evaluation—Comparative examination of hole size versus caliber, calculating the “ellipse”, evaluation of different matrices (glass, wood, metal, screens etc.), direction of bullet travel.  
12:00-13:00 Lunch  
13:00-16:00 Ricochet Evaluation and bullet impact exercises  
16:00-17:00 Wound Ballistics and Bloodstain Considerations

## **Understanding and Processing Shooting Crime Scenes**

### **Topic: Firearm Related Crime Scene Examination**

#### **Day 3**

8:00-9:00 Review and Discussion

9:00-12:00 Trajectory Documentation and examination—Lecture and classroom practice on measuring recording and processing bullet trajectories using both rods and lasers.

12:00-13:00 Lunch

13:00-17:00 Practical Trajectory Processing and Documenting trajectories shot on the range at known angles. Comprehensive exercises to include measurement, photo documentation, chemical testing and note taking. These exercises will form the participants basis with which to process true unknown exercises on the following day.

#### **Day 4**

8:00-9:00 Review and Discussion

9:00-12:00 Practical Exercises and Documentation

12:00-13:00 Lunch

13:00-17:00 Practical Exercises and Documentation

#### **Day 5**

8:00-9:00 Review and Discussion

9:00-11:00 Continue Practical Exercises (if Necessary)

11:00-12:00 Practical Exercises and Documentation

12:00-13:00 Lunch

13:00-15:00 Practical Exercises and Documentation

15:00-17:00 Final Exam (open book)

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**Student Name:** \_\_\_\_\_

**Department/Company:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

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