



# Training in Stillwater, Oklahoma!

## Advanced Traffic Crash Investigation

(80 Hours)

### SECOND IN A SERIES OF THREE COURSES

Building upon the theories and techniques learned in IPTM's *At-Scene Traffic Crash/Traffic Homicide Investigation* course, this class will delve into the advanced concepts of traffic crash investigations.

More complex vehicle dynamics such as acceleration/deceleration, factor, rate and airborne situations will be explored. You will learn to estimate speeds from falls, vaults, and flips and the calculation of kinetic energy and linear momentum. You'll also learn to evaluate vehicle lamps, tires, and damage to help determine vehicle behaviors during the collision.

Much of the coursework will be spent using acceleration/deceleration factors and perception/reaction times to determine time/distance relationships for colliding vehicles.

#### Topics include:

- Speed estimates from kinetic energy, skidmarks, scuffmarks and airborne situations
- Vehicle dynamics and motion
- Time, distance, and motion equations
- Conservation of momentum equations
- Center of mass calculation

- Vehicle lamp examination
- Tire damage evaluation
- Vector sum analysis

**Prerequisite:** You must have completed IPTM's *At-Scene Traffic Crash/Traffic Homicide Investigation* course or its equivalent. You should review all formulas and work from this course prior to coming to class.

**Note(s):** Please bring a calculator with square root, sine/co-sine, and parentheses () functions; a compass; and work clothes for outside activities (including inclement weather). A camera and equipment to document field exercises as well as a three-ring binder for handouts is recommended.

**Audience:** Law enforcement and private traffic crash investigators, claims adjusters, engineers, attorneys, safety officers, military investigative personnel, animators and graphic designers

Course Fee: \$1095

**December 5-16, 2022  
Stillwater, Oklahoma**

**Course will be held at the:  
Michael S. Morgan Building  
1201 South Innovation Way  
Suite 400  
Stillwater, OK 74074**

#### REGISTRATION AND FEES

Full payment must accompany all registrations. You may register online at [www.IPTM.org](http://www.IPTM.org) and pay with your Visa, MasterCard, Discover or American Express credit card, or you may download a registration form and mail it to IPTM with a check.

#### CANCELLATION/REFUND POLICY

Complete the Cancellation Request Form and return it to IPTM. No telephone cancellations will be accepted. A 20% administrative fee will be assessed to all refunds if the cancellation request is received within 14 days of the course start date. In lieu of a refund, student substitutions can be made or a credit can be issued for a future course. No refunds will be given for no-shows.

#### COURSE CONFIRMATIONS

A minimum number of registrations must be received for a class to run as scheduled. When the minimum criterion has been met, written confirmation will be mailed, faxed, or emailed to you.

**Please do not make airline reservations until you receive written notification confirming that the course will run as scheduled.**

#### TRANSPORTATION AND LODGING

Most locations are served by several major airlines. Ground transportation, food and lodging are the responsibility of the student. However, hotels in the listed areas offer a special rate to IPTM program participants. For more information, please visit our website at [www.IPTM.org](http://www.IPTM.org) or call us at (904) 620-4786.

**To register for this course online, please visit our website at:**

**[www.IPTM.org](http://www.IPTM.org)**