



Advanced Traffic Crash Investigation



Institute of Police Technology and Management
University of North Florida

June 7, 2027 – June 18, 2027
8:00 a.m.- 5:00 p.m.



Holiday Inn

*8555 Stansted Road
Indianapolis, Indiana 46241*

First week check-in June 6th check out June 11th
Second week check-in June 13th check out June 18th

Course, Hotel room and State Rate with a per diem are paid for students traveling more than 50 miles through a grant by Indiana Criminal Justice Institute

To register contact IACAI board member Bob Wilcox at rwilcox1609@gmail.com TX: 260-416-8872

www.iacai.com
www.facebook.com/IndianaIACAI

Advanced Traffic Crash Investigation

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 like 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

Audience

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

Course Length

80 hours

Prerequisite(s)

You must have completed IPTM's *At-Scene Traffic Crash/Traffic Homicide Investigation* course or its equivalent.

What to Bring

Required

- Calculator with square root, sine/co-sine, and parentheses () functions and a compass
- Work clothes for outside activities (including inclement weather)

Recommended

- Camera and equipment to document field exercises
- Three-ring binder for handouts