



# Advanced Commercial Vehicle Crash Investigation (40 Hours)

This course is designed to further enhance the knowledge and skills you acquired in IPTM's *Inspection and Investigation of Commercial Vehicle Crashes* course. You will learn how to conduct a detailed analysis of commercial motor vehicle dynamics and its application to traffic crash reconstruction.

During this course, you will analyze the ABS air brake system by conducting tests to determine average air chamber pressure. You will also be shown how to determine the limits of axle weights based upon the location of center mass, as well as static-quasistatic and dynamic roll propensities.

### Topics include:

- Kinetic energy - determining delta-V in central impacts
- ABS - Air Brake Systems
- Speed analysis using gear reduction ratios
- Low speed - high speed off-tracking
- Dynamic roll propensities
- Axle weight distribution - using equilibrium and free body diagrams
- Liquid load analysis

**Note:** You should bring a scientific calculator and, if available, an engineers scale along with a 30/60/90 degree triangle.

**Prerequisite:** You must have completed, at a minimum, IPTM's *Advanced Traffic Crash Investigation* and *Inspection and Investigation of Commercial Vehicle Crashes* courses.

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

**Course Fee:** \$795

#### COURSE FEE

The course fee includes tuition, a student reference manual and study materials. We accept checks, cash, agency purchase orders and credit cards. Credit card payments may be made online using your Visa, MasterCard, Discover or American Express card.

#### REGISTRATION

Register online at [www.iptm.org](http://www.iptm.org). 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.**

#### REFUND POLICY

A 10% administrative fee will be assessed to all refunds. In lieu of a refund, student substitutions can be made or a credit can be issued for a future course.

#### 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-IPTM.

#### CONTINUING EDUCATION CREDITS

Continuing Education Units (CEUs) are available through IPTM. Please call us at (904) 620-IPTM for details.

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

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

# Institute of Police Technology and Management University of North Florida

## Registration Form

(Please type or print)

NAME \_\_\_\_\_ SS# \_\_\_\_\_

ORGANIZATION \_\_\_\_\_ TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TELEPHONE \_\_\_\_\_ FAX \_\_\_\_\_

E-MAIL \_\_\_\_\_

Course Title: \_\_\_\_\_

Course Fee\*: \_\_\_\_\_

*\* Due to very limited seating, a \$250 non-refundable deposit is required in order to register for computer software or digital photography courses. Payment or purchase order must be submitted with registration.*

*For online courses, full payment must be received at least one week prior to the first day of class.*

*Please indicate the dates and location of the course for which you are registering:*

Course Dates: \_\_\_\_\_

Course Location: \_\_\_\_\_

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

**You can also register online at: [www.iptm.org](http://www.iptm.org)**

### Authorizing/Registering Official

*Americans with Disabilities Act Program Accessibility: Individuals who require reasonable accommodation in order to participate must notify the registrar at (904) 620-IPTM at least five working days prior to the class.*

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

REGISTERING PERSON'S E-MAIL \_\_\_\_\_

PURCHASE ORDER NUMBER \_\_\_\_\_ [ ] FEE ENCLOSED

*Make checks payable to: Institute of Police Technology and Management*

[ ] SEND INVOICE TO \_\_\_\_\_

**REFUND POLICY:** Effective January 1, 2012, a 10% administrative fee will be assessed to all refunds. In lieu of a refund, student substitutions can be made or a credit can be issued for a future course.



#### Return to:

Institute of Police Technology and Management/University of North Florida  
12000 Alumni Drive • Jacksonville, Florida 32224-2678  
Phone: (904) 620-IPTM • Fax: (904) 620-2453 • website: [www.iptm.org](http://www.iptm.org)