



TRAINING ANNOUNCEMENT

VANCOUVER POLICE DEPARTMENT TRAINING DIVISION

ATTENTION TRAFFIC COLLISION INVESTIGATORS

COURSE NAME: Applied Physics for Traffic Crash Investigators

LOCATION: Vancouver Police Department
East Precinct
520 SE 155th Avenue
Vancouver, WA 98684

COURSE DATE/

TIME: October 15–19, 2012 / 8am – 5pm (hour lunch)

COURSE COST: \$725

COURSE INFORMATION:

This course will provide you with a more thorough understanding of the physics that are applied in the reconstruction of a traffic crash or any other incident where motion is involved.

While some of the topics discussed in the course are introduced in basic crash investigation and reconstruction courses, they will be given significantly more in-depth coverage in this course. In addition, *Applied Physics for the Traffic Crash Investigator* will prepare you for the concepts presented in advanced reconstruction courses using computer modeling.

You must have successfully completed IPTM's *Advanced Traffic Crash Investigation* course, or its equivalent, as a prerequisite.

Topics include:

- Math overview
- Work-energy relationships and applications
- Conservation of linear momentum/impulse
- Uniform projectile motion/airborne equations
- Uniform circular motion/critical speed
- Tire forces and tire mark evidence
- Time-distance relationships
- Energy loss in collisions/CRUSH
- Rotational mechanics/rotation after collision and pitch down in take off
- Low-speed collision considerations including coefficient of restitution

REGISTER CONTACT:

Institute of Police Technology and Management at www.iptm.org or (904) 620-4786

FOR MORE INFORMATION CONTACT:

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Vancouver Police Traffic Unit

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