Course Description:
In this 40-hour class the student will learn to investigate and analyze advanced traffic crashes utilizing mathematical and graphical solutions. Familiar momentum equations will be reviewed and examined. Topics covered will include the study of trigonometric functions using the unit circle, trigonometry functions, Law of Cosines & Sins as they relate to PDOF’s, limited applications of EDR equations, post collision analysis using vector sum analysis, complex case studies using scale diagrams. This course will help the student become more comfortable in using delta V’s and PDOF’s analysis, EDR equations with Conservation of Linear Momentum.

The prospective student for this course should have a firm understanding of topics involved in traffic crash reconstruction to include Basic Traffic Homicide (80 hrs.), Advanced Traffic Homicide Investigation (80 hrs.), Traffic Reconstruction Investigation (80 hrs.) and good basic math skills.

Course Objectives:
At the end of this program, students will:
♦ Understand Trigonometric Functions Using the Unit circle
♦ Understand Law of Cosines & Sins as they relate to PDOF’s.
♦ Review and Examine Conservation of Linear Momentum Refresher
♦ Solve for DV’s using Equations & Velocity Vectors
♦ Understand DV’s & PDOF’s Using Equations & Vector Sum Analysis
♦ Understand Conservation of Linear Momentum with Graphical & Mathematical Solutions
♦ Understand COLM with Graphical & Mathematical Solutions
♦ Determine Post Collision Analysis Using Vector Sum Analysis
♦ Use EDR Equations for Traffic Crash Reconstructionist
♦ Prepare reconstruction projects using scale diagrams

Instructor:
Corporal Bill Barge (retired) is a career law enforcement officer and is a nationally recognized traffic accident investigator and reconstruction expert.

Who Should Attend:
♦ Traffic homicide investigators
♦ Investigators
♦ Police Service Aides that conduct accident investigations

 Fees: None for certified officers and authorized support personnel.

End of Course Examination: CJSTC Rule 11b35.001 9(b): A student enrolled in a Commission-approved Advanced or Specified Specialized Training Program Course shall achieve a score of no less than 80% on the written end-of-course examination. A student enrolled in a Specialized Instructor Training Course shall achieve a score of no less than 85% on the written end-of-course examination, exclusive of demonstration of any proficiency skills.

Attendance: Attendance at the initial class is mandatory. All students must adhere to the attendance requirements of the Criminal Justice Standards and Training Commission and the Rules, Policies and Procedures of the Institute of Public Safety

Dress Policy: Your department’s authorized training uniform. Law enforcement personnel not in uniform that are carrying exposed firearms must prominently display agency ID and/or badge at all times while on college property.

Submit Registration form to: Broward College/IPS, 3501 Davie Road, Davie, Florida 33314, Attn: Professional Development
FAX: 954.201.6305 PHONE: 954.201.6787 or 954.201.6769

This course is applicable to Mandatory Retraining. Federal I.D. #59-1216107

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