

Preapproved
3 hrs

CORONERS' EDUCATION BOARD
PROPOSAL FOR COURSE APPROVAL

To be ratified
9/24
2025-78

NAME OF COURSE: PEDESTRIAN V. MOTOR VEHICLE INJURY ANALYSIS

TOTAL HOURS: ~~26~~ ³ HOURS

COST: \$50.00

LOCATION (ADDRESS): ONLINE
[HTTPS://WWW.DITACADEMYONLINE.ORG/COURSES/PEDES
TRIAN-INJURY](https://www.ditacademyonline.org/courses/peDESTRIAN-INJURY)

DATE(S) OF COURSE: ANYTIME

PRESENTER: FRANK CARSON

ADDRESS: ONLINE

CONTACT PERSON TO ENROLL IN COURSE: JODI MONGRAIN

TELEPHONE NO OF CONTACT PERSON: (717) 836-6293

SUBMITTED BY: BRIANA REIGEL

EMAIL ADDRESS: BRIANA.REIGEL@LEBANONCOUNTYPA.GOV

TELEPHONE NO: (717) 836-6214

DATE: 8/27/2025

Pedestrian v. Motor Vehicle Injury Analysis

This course is designed for the police officer and Coroner/MDI investigator, to better understand pedestrian impact injuries and how those injuries tell the story of a fatal collision.

Frank Carson

4.9 /5

(106)


\$50

Buy \$50

 English

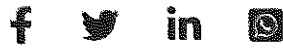
 Student Level: Everyone

 On-Demand Video

 Certificate of Completion

This course includes:

- ✓ 2.5 Hrs POST & ABMDI Credits
- ✓ Downloadable Resources
- ✓ Knowledge-Based Quizzes
- ✓ Private FB Community
- ✓

[Overview](#)[Curriculum](#)[Instructor](#)[FAQ's](#)[Recent Reviews](#)

Instructor

Frank Carson

Instructor

Frank Carson is a retired police officer who served for over 34 years in a large urban police department, which served over 800,000 residents. During his career, he was assigned to the patrol division and the investigative section as an evidence technician, as well as in informational services as a crime analyst. Frank Carson was assigned to the Crash Reconstruction Unit for 25 years, where he investigated several hundred fatal and critical injury crashes. He has testified in criminal and civil court numerous times in fatal crash cases and has been qualified as an expert witness by the courts on many occasions. Frank has taught and developed classes in Crash Reconstruction and Investigation for 20 years and taught DUI Detection and Testing to people throughout the country. He has consulted on crash fatality cases for local, state, and federal agencies and private companies. In addition to investigating fatal and critical injury crashes, Frank also performed traffic enforcement duties and commercial vehicle enforcement as a Department of Transportation Level I Commercial Vehicle Inspector. Frank has spoken at many community and agency groups and at NASA's Goddard Space Flight Center during traffic safety awareness training.

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Course Description

[Tax Exempt? Click Here](#)

Approximately 6,500 pedestrians were killed in vehicle crashes in 2020. A pedestrian struck by a vehicle can suffer significant trauma during the encounter. Injury severity changes with the vehicle's speed, the type of vehicle, as well as the age and health of the pedestrian.

An analysis of the injuries that the person suffered from the impact can help to determine how the crash occurred. In addition, the dynamics of the crash can be determined by looking at evidence from various sources at the scene.

The instructor will walk you through the dynamics of a pedestrian impact and post-impact movement by applying them to Newton's principles of motion. You will then learn how vehicle design effect post-impact dynamics and how injuries occur at the point of impact, as well as during all post-impact movements.

The course will summarize all learning objectives by detailing six actual pedestrian crash incidents and analyzing injuries, body movement, vehicle and roadway evidence, and witness statements. This course does contain actual crash scenes and graphic injury photographs.

What You Will Learn

In this course, you will learn what facts and evidence can be gained by understanding injuries that occur in this type of collision. The highlight lessons in this course are.

✓ How the body moves after impact, and what factors play a role in that movement

✓ What vehicle design can tell us about impact and body movement.

✓ Vehicle speed plays a role in impact injuries, but how much really depends on speed?

✓ Basic understanding of crash reconstruction.

Who This Course is For

This course will be beneficial to all professionals working in law enforcement and Coroner/M.E. roles. The principles taught will help you be a better investigator.









- Law Enforcement Patrol
- Law Enforcement Supervisors
- Detectives and Investigators
- Coroner and MDI Investigators
- Interested Students

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

Curriculum

28 Lessons

— Course Introduction and Welcome (03:40)

-  Content Integrity and Continuing Education Credits 
-  Content Integrity and Continuing Education Credits Acknowledgment 
-  Welcome to your new course 
-  Join the Private Facebook Community 

— Crash Dynamics and Injury Severity (1:43:18)

-  Downloadable Presentation Slides 
-  The dynamics of crash movement 
-  Pedestrian crash research 
-  Quiz: Principles of Motion 
-  Vehicle design and injuries 
-  How bodies react to impact 
-  Quiz: Vehicle design and pedestrian injuries 
-  Injury severity pt1 

 Injury severity pt2 

 Quiz: Injury Causes and Severity 

 Amputations and Head Injuries 


 Pattern Injuries and Roadway Evidence 

 Quiz: Head Injury and Roadway Evidence 

Case review and injury analysis (38:20)

 Scenario One 

 Scenario Two 

 Scenario Three 

 Scenario Four 

 Scenario Five 

 Scenario Six 

 Quiz: Case Review 

Reading and Resources (02:01)

 Resources and Summary 

 Recommended Reading 

 Free Monthly Magazine 

 Law Enforcement CLEE Request 

OAG Coroners' Education Board Proposal For Course Approval Submission

From PA Office of Attorney General <noreply@attorneygeneral.gov>

Date Wed 8/27/2025 9:29 AM

To Jury, Ali R. <ajury@attorneygeneral.gov>

 4 attachments (836 KB)

2025-ceb-pedestrian-v-motor-vehicle-injury-analysis-pedestrian-v-motor-vehicle-injury-analysis-overview.pdf; 2025-ceb-pedestrian-v-motor-vehicle-injury-analysis-pedestrian-v-motor-vehicle-injury-analysis-curriculum.pdf; 2025-ceb-pedestrian-v-motor-vehicle-injury-analysis-pedestrian-v-motor-vehicle-injury-analysis-instructor.pdf; coroner-course-application-Reigel.pdf;

PA Office of Attorney General

Name of Course

Pedestrian v. Motor Vehicle Injury Analysis

Total Hours

2.5 hours

Cost

\$50.00

Address

online

<https://www.ditacademyonline.org/courses/pedestrian-injury>

[Map It](#)

Date(s) of Course

anytime

Presenter Name

Frank Carson

Address

Online

[Map It](#)

Contact Person to enroll in course

Jodi Mongrain

Telephone Number of Contact Person

(717) 836-6293

Submitted by:

Briana Reigel

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Date

8/27/2025

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