

## About the course

### Advanced Accident Investigation (Level II)

This two week Advanced Crash Investigation (Level II) course is an advanced program in the investigation of traffic accidents. It combines both a mixture of classroom and simulated practical experience. It is designed to teach the patrol officer more advanced and technical aspects of accident investigation. The objective of the course is to expand the knowledge and proficiency of the investigator and to provide for a more detailed follow-up investigation on selected traffic accidents. This will not only sharpen skills as an on-scene investigator, but expand ability in courtroom testimony. Each officer must have completed a basic accident investigation (Level I) course prior to enrollment.



### About the Instructors:

**Henry P. Lipian: (ACTAR #83)** B.S.S. Mr. Lipian is a former municipal police sergeant, federal officer with the U.S. Coast Guard and Ohio State Trooper. He has been involved full-time in the private area of crash reconstruction since 1989. He is a graduate of specialized crash investigation and reconstruction schools from Texas A&M University, Northwestern University, The Highway Patrol Academy, Underwriter's Laboratory, The University of North Florida and others. He is the President and CEO of INTROTECH Crash Reconstruction Services Inc. in Grafton, Ohio. He is a court accepted expert in both traffic and watercraft crash reconstruction.

**Vince Cronin (ACTAR #2389)** was a career law enforcement officer and retired in 2017 from the Eastlake Police Dept. During his law enforcement career, Mr. Cronin was assigned to the Motorcycle Unit, Field Training Unit, and was the Department's Driving Instructor. He also served as the Operations Commander for the Lake Regional Crash Reconstruction Unit and has been involved in countless investigations and reconstructions of serious injury and fatal crashes throughout Lake County, Ohio. Mr. Cronin also served as a basic police instructor with Lakeland Community College and Bryant & Stratton College, as well as the Ohio Peace Officers Training Academy in London, Ohio, instructing courses in Crash Investigation & Crash Reconstruction.

**Matthew Healy** graduated from the IPTM accident reconstruction school and had previously completed both Basic and Advanced Accident Investigation training through NUTI. Mr. Healy previously worked for 8 years as a professional videographer, specializing in corporate commercials, wedding videography, and training videos. He has a bachelor's degree in Electronic Media Production from Kent State University. Today visual and audio evidence is everywhere and can be found at more locations and from more diverse sources than ever before. With the capabilities of his editing suite, Mr. Healy can enhance visual and auditory evidence and convert it into usable data. Mr. Healy's focus is to find the metadata within the video, determine frame counts and specs of the video, enhance both the video and audio, and help identify the who, what, when, where and why of the case.

## About the topics

- Review of Roadway Evidence and Its Relevance
- Basic Formula and Math Review
- Maps and Measurements Review
- Use of the Traffic Templates and Scale Drawings
- Vehicle Damage Analysis and Vehicle Behavior during a crash
- Crush Damage Measurements and Protocol
- Lamp analysis
- Video and Photographs, with Photogrammetry and Overlays
- Airborne Equations
- Curvilinear Motion and Curves
- Drag Factors & Friction
- Commercial Vehicle Investigations
- Pedestrian & Motorcycle Investigations
- Basic Motion Equations
- Introduction to Momentum & Energy
- Introduction to Airbags, and Air Bag Control Modules; Occupant Safety Systems
- Evidence Preservation Issues
- Report Writing & Basics of Expert Testimony
- Numerous practical exercises and Case Studies
- Final examination

**REGISTRATION INFORMATION**

Name \_\_\_\_\_  
Agency \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_  
Zip \_\_\_\_\_ Phone \_\_\_\_\_  
FAX \_\_\_\_\_ e-mail \_\_\_\_\_

**Registration fee:  
\$950.00 per person**

**Training Site:**

**Eastlake Police Department  
35150 Lakeshore Blvd.  
Eastlake, Ohio 44095**



**4 WAYS TO REGISTER:**

**On Line: [www.ncpi-ohio.com](http://www.ncpi-ohio.com)**

**Mail: North Coast Polytechnic Institute  
Attn: William D. Healy, Director  
6688 Steinbeck Court  
North Ridgeville, Oh 44039  
Phone (440) 353-0796**

**e-mail: [info@ncpi-ohio.com](mailto:info@ncpi-ohio.com)**

**Fax: (440) 353-0797**

**FOR OFFICE USE ONLY**

School No \_\_\_\_\_  
School: Advanced Accident Inves. (Level II)  
Eastlake PD September 19-30, 2022

**WEB: [www.ncpi-ohio.com](http://www.ncpi-ohio.com)**

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**presents**

**ADVANCED  
Accident  
Investigation  
(Level II)**



**HOSTED  
BY**

**Eastlake Police  
Department**

**2 week school**

**September 19-30,  
2022**

**8:00 AM – 4:30 PM  
each day**