



Northwestern | CENTER FOR PUBLIC SAFETY
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PASSENGER VEHICLE FORENSIC MECHANICAL INSPECTION *for* COLLISION INVESTIGATORS

A hands-on investigation course for proper examination, documentation & evidence preservation.

Our unique blend of lecture and hands-on experience gives students the training required to confidently perform forensic mechanical inspections of collision-damaged passenger vehicles.

Forensic work focuses on the throttle, steering, brakes, suspension, wheels, drivetrain, and lamps while also covering passenger airbag and restraint systems. Our expert instructors provide foundational lessons about each component, then students put those lectures to work by mechanically examining and manipulating that component in a damaged vehicle.

Course instruction emphasizes what to document during a vehicle inspection and the proper methods for gathering, analyzing, and recording facts about vehicle damage, crash conditions, and other relevant circumstances. This course includes the disassembly, isolation, measurement, testing, and reassembly of throttle, steering, and brake system components. It also incorporates a comparison study of undamaged vehicles to provide a thorough understanding of commonly damaged passenger vehicle components.

Students learn how to research information and document technical reports using industry-standard terminology to support their findings.

Participants who successfully complete this course should be able to identify parts and pieces of vehicle component systems and clearly explain how different components may have factored into a crash.

CURRICULUM TOPICS

- Proper forensic investigation methods
- Industry standard terminology
- Research techniques
- Technical report writing
- **Hands-on work with damaged vehicles, including:**
 - Brake systems
 - Suspension system
 - Throttle system
 - Wheel systems
 - Steering system

**TO REGISTER OR LEARN MORE,
SCAN THE QR CODE
OR VISIT**
nucps.northwestern.edu/crash



COURSE FORMAT:
On-Ground Only

PREREQUISITES:
None

HOSTING INQUIRIES:
**To learn about hosting this
course at your
agency, contact**
nucps@northwestern.edu.