

DAY 1

Introduction, Terminology and Principles

- Introduction and Traffic Accident Terminology
- Factors of Traffic Safety:
 - Human
 - Vehicle
 - Road
 - Environment
 - Legal
- Principles of the On-scene Investigation

DAY 2

Securing the Scene of the Accident, Evidence Identification and the On-scene Measurement

- Securing the Scene and Investigator Safety
- Impact – crash Phases
- Principles of the On-scene Investigation
- Using Drones and Lidar Technology

DAY 3

Evidence Identification, Preservation and Verification

- Evidence Identification
 - Traces that appear before the Point of Collision
 - Traces that appear at the Point of Collision
 - Traces that arise after the Point of Collision
- Accident Evidence Found on the Vehicles
 - Damage Marks
 - Material Marks
 - Wiping Marks
 - Casting Marks
 - Abrasion, Melting Marks
 - Seatbelt Examination
- Evidence Verification

DAY 4

On – Scene Measurement

- Measurement Equipment and Measurement Procedures
- Measuring Damages on the Vehicles
- Investigation of the Road Design and Construction Elements Influence
- Characteristics of Rollovers On – scene Investigation
- Characteristics of Pedestrian and Animal Collision On – scene Investigation

DAY 5

Traffic Accident Reconstruction

- Using Software and Additional Resources
- Using Unmanned Aerial Vehicles for On-scene Investigations
- Collision Analysis and Reconstruction
 - Driver Reaction Time
 - Determining Speed from the Braking Marks
 - Safe Following Distance
 - Calculating Speed of the Vehicle Lost due to the Damage in the Crash
 - Calculating Speed of Rollover
 - Pedestrian Collision Calculations
 - Motorcycle Accident Reconstruction
- Conservation of Momentum Calculations for Accident Reconstructions