CURRICULUM VITAE

John H. Howard

Accredited Accident Reconstructionist, A.C.T.A.R. #2757

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EDUCATION /CERTIFICATIONS

2022 Forensic Training Group, 32 hours, Heavy Vehicle EDR use in Crash Investigation:

Best practices used to access and document HVEDR data, Use of OEM software/adaptors, Forensic Link Adapter and Truck Crypt software.

2022 Accident Analysis & Reconstruction, Inc., 40 hours, Advanced Collision Reconstruction with CDR Applications:

EDR Speed validation, Delta V as starting point for COLM Analysis.

2021 OTARA, 24 hours, Optics and Lighting:

Illumination mapping, Headlight mapping, Night-Time Visibility Determination, Night-Time and Special Situation Photography.

2019 Northwestern University Center for Public Safety, 40 hours, Advanced Crash Reconstruction Utilizing Human Factors:

Analyzing Perception Response Times, Night-Time Visibility Determination, Proficiency in IDRR (Integrated Driver Response Research) Software.

2019 Ohio Peace Officer Training Academy, 80 hours, Instructional Skills: Academy Instruction Certification, Tools for instructors, Student Based Learning Instructional Techniques.

2018 Ohio Peace Officer Training Academy, 40 hours, Commercial Vehicle Enforcement & Inspection: Commercial Motor Vehicle Laws, Federal Motor Carrier Standards, and Level I Commercial Vehicle Inspection Protocol.

2018 Northwestern University Center for Public Safety, 24 hours, EDR Analyst: Reading, Interpreting, and Understanding Event Data Recorder Reports, Data Limitations, 49CFR563.

2018 Northwestern University Center for Public Safety, 16 hours, EDR Technician: Technique and protocol for imaging Event Date Recorders from passenger cars and light trucks.

2017 Northwestern University Center for Public Safety, 40 hours, Traffic Reconstruction Level 3: Topics include special problems, advanced concepts in energy, advanced concepts in momentum, force balance, and Monte Carlo analysis.

2016 World Reconstruction Expo, 40 hours,

Numerous topics including live crash testing of light cars, trucks, motorcycles, and heavy trucks. Emergency vehicle crash reconstruction.

2015 Northwestern University Center for Public Safety, 40 hours,

Heavy Vehicle Crash Reconstruction: Topics include documenting evidence, vehicle inspections, air brake systems, determining center of mass for combination vehicles, and speed determinations.

2015 Accreditation Commission for Traffic Accident Reconstruction,

ACTAR #2757

2014 Ohio Traffic Accident Reconstruction Association, 24 hours

Delta V from EDR: Delta V and PDOF determination from reported EDR values

2013 Northwestern University Center for Public Safety, 40 hours,

Traffic Crash Reconstruction Level 2: Topics include commercial vehicle reconstruction, pedestrian accident reconstruction, and motorcycle accident reconstruction.

2013 Northwestern University Center for Public Safety, 80 hours,

Traffic Accident Reconstruction Level 1: Topics include determining vehicle speeds using crush analysis, and conservation of momentum.

2012 Ohio Peace Officer Training Academy, 8 hours, Drag Factor Determination: Topics include drag factor determination, weight distribution during braking, braking efficiency, and live field testing on various surfaces.

2012 Northwestern University Center for Public Safety, 40 hours, Vehicle Dynamics: Topics include vehicle speed determinations and time/distance calculations

2011 Northwestern University Center for Public Safety, 80 hours, Accident Investigation Level 2: Topics include tire inspections, lamp analysis, principle direction of force, coefficient of friction, scaled diagramming, and vehicle speed determinations.

2010 West Carrollton Police Department, 40 hours, Accident Investigation Level 1: Topics include determining vehicle speed from skid marks and yaw marks, documenting evidence during initial scene investigation and measuring accident scenes.

1994 Sinclair Community College, Associate Degree in Applied Science Of Law Enforcement

TRAINING AND EXPERIENCE

TEACHING

2022 Ohio Traffic Accident Reconstruction Association, 40 hours, Accident Investigation Level 1, Primary Instructor

2021 Ohio Traffic Accident Reconstruction Association, 40 hours, Accident Investigation Level 1, Primary Instructor

2018 Ohio Traffic Accident Reconstruction Association, 40 hours, Accident Investigation Level 1, Primary Instructor

2017 Ohio Traffic Accident Reconstruction Association, 40 hours, Accident Investigation Level 1, Primary Instructor

2015 Ohio Traffic Accident Reconstruction Association, 8 hours, Accident Investigation Level 1, Assistant Instructor

2014 Ohio Traffic Accident Reconstruction Association, 8 hours, Accident Investigation Level 1, Assistant Instructor

TECHNICAL SKILLS AND EXPERIENCE

- Vehicle Speed Calculations from Skid Marks, Yaw Marks, Damage, and Momentum
- Time/Distance Calculations
- Photography
- Occupant Kinematics
- Forensic Mapping and Diagramming
- Vehicle Lamp and Tire Analysis
- Heavy Truck Accident Reconstruction
- Monte Carlo Analysis
- EDR Technician and Analyst
- Commercial Motor Vehicle Inspections
- Crash Reconstruction Utilizing Human Factors

LAW ENFORCEMENT TRAINING

2021 CTS, 24 hours, Less Lethal Munitions Instructor

2019 Team One Network, 8 hours, Benelli M-Series Armorer

2018 Ohio Peace Officer Training Academy, 32 hours, Combat Shooting

2016 Montgomery County SO, 24 hours, AR-15 Armorer

2015 Montgomery County SO, 8 hours, Glock Armorer

2014 Butler Technology School, 40 hours, Patrol Rifle-Carbine Instructor

2014 Butler Technology School, 32 hours, Patrol Shotgun Instructor

2013 Butler Technology School, 32 hours, Police Semi-Automatic Handgun Instructor

2013 Butler Technology School, 8 hours, Firearms, Weapons, and Requalification Instructor

2013 AAA Conference and Ohio State Highway Patrol, 4 hours, National Traffic Incident Management

2009 Miami Valley Regional Crime Laboratory, 120 hours, Evidence Technician

2005 National Incident Management Systems, 8 hours, Federal Emergency Management

2004, Butler Technology School, 40 hours, First Line Police Supervisor

2003, NUCPS, 40 hours, Police Field Training and Evaluation

2002, Kettering Police Department SRT, 32 hours, SWAT Operator

1998 Ohio State Highway Patrol, 560 hours, Basic Police Officer training Academy

EMPLOYMENT HISTORY

2016 to Present   **Crash Reconstruction Experts**

Sub-contractor

1-5-98 to Present   **Moraine Ohio, Police Officer (Detective Sgt.)**

Responsibilities include technical traffic accident investigation and reconstruction, traffic and criminal law enforcement, field training officer, evidence technician, firearms trainer/instructor, UOF policy instructor, founder and administrator of City of Moraine Safe Seniors Initiative, and all other general police duties.

11-5-02 to 5-1-09   **Tactical Crime Suppression Unit, SWAT Operator**

Responsibilities include Critical Incident Response, advanced weapons and small unit tactics, mass shooting response, dignitary protection, and riot control.

6-1-89 to 5-1-91   **United States Marine Corps (Reserve), Infantry**

Responsibilities include small unit tactics, proficiency across a wide range of weapon platforms, combat readiness, and battlefield control.

Professional Memberships/Associations

2015 to present   **Ohio Traffic Accident Reconstruction Association**

Member in good standing

Currently serving as Association President

2016 to present   **International Network of Collision Reconstructionist**

Member in good standing

2019 to present   **OTARA representative to the 2023**

World Reconstruction Exposition (WREX)