



Forensic Mapping with Trimble Total Stations & Scanners

Course Description: This course teaches crash and crime scene investigators the skills necessary to put the Trimble forensic mapping system into use. Students learn the background and theory of forensic mapping. This will allow attendees to provide foundational testimony to ensure their scale diagrams are admitted as evidence in court.

This course focuses on the set-up and use of Trimble total stations, scanners, GNSS mapping systems, and data collectors. The instructor will concentrate on the type of instruments and data collection software owned by the attending agencies.

Students will learn how to store scene measurements with the Trimble Capture software. The course will also cover Trimble Access and Trimble Survey Controller if there is an agency need. By the completion of the course, students will be able complete the workflow from set-up all the way to importing scene data into forensic diagramming software.

Topics Include:

- Introduction to Forensic Mapping
- Basics – Hand Measuring System
- Forensic Mapping Standards
- Total Station Basics and Nomenclature
- Total Station Set-up
- Mapping Basics
- Data Collector Software
- Measuring Topography
- Exporting Data
- Accuracy Confirmations
- Moving the Total Station
- Mapping with GNSS
- Integrated Mapping with Trimble SX10 & GNSS
- Mapping with multiple instruments
- Mapping Indoor Crime Scenes
- Importing Data into Forensic Diagramming Software

Prerequisites: Basic Crash Scene Investigation or Basic Crime Scene Investigation Course.

Course Dates: Public course dates coming soon *

***Note:** If you are looking for staff training at your facility or would like to host training at your facility contact Mr. Thomas Erdmann direct at: 262-321-9382 or via email at: forensics@seilerinst.com

Course Length: Course taught over 1 week total 31 hours.

Required course items to bring: Agency total station, laptop computer, scientific calculator, and *Trimble Reveal software (recommended, but not required)*. Appropriate outdoor clothing to include a reflective vest.

Course Fee: \$685.00 per person. MC, VISA, PayPal accepted.

Instructor: Thomas W. Erdmann – Seiler Instrument, Applied Forensic Expert

Thomas Erdman joined Seiler Instrument in 2019 as our Trimble/Forensics Industry Expert and Technical Support and Training Specialist. Thomas worked for the Wisconsin State Patrol for over thirty years. He has been providing expert analysis of motor vehicle collisions and crime scene reconstructions since 1996.. Thomas also served as the supervisor for the State Patrol's Technical Reconstruction Unit. He is accredited by ACTAR (Accreditation Commission for Traffic Accident Reconstruction). He was involved in teaching crash related topics at the Wisconsin State Patrol Academy and conferences throughout the country. Thomas worked with the State of Wisconsin's Traffic Incident Management Enhancement (TIME) program, providing technical data to reduce the duration and impacts of traffic incidents. He provided technical expertise for the publication of the Wisconsin Department of Transportation's "Emergency Traffic Control and Scene Management Guidelines" and "A Comparative Study of Trimble® Robotic and Non-Robotic Total Stations". He also served as a forensic mapping expert for Technical Reconstruction Unit, providing training and technical assistance with mapping equipment and principles.

Thomas received his Associated Degree in Police Science from the Waukesha County Technical College. He is a graduate from the Waukesha County Technical College Police Recruit Academy and the Wisconsin State Patrol Academy. He has attended numerous specialized crash and crime scene related training and has courses. Thomas has provided technical expertise in numerous crash reconstruction disciplines including speed analysis, occupant kinematics, pedestrian crashes, motorcycle crashes, time-distance relationships, lamp examination, crash data retrieval, forensic mapping, and more.