



TSI FUNDAMENTALS OF BUS COLLISION INVESTIGATION

Course Overview

This course includes basic investigation tools and techniques relating to data collection, on-scene evidence documentation, damage and debris evidence analysis, witness interview techniques, computation of simple speed estimates and report writing. Implementation of techniques learned can minimize transit agency liability and reduce the frequency and severity of collisions. **This course requires working knowledge of simple high school algebra and involves homework assignments.**

Course Elements

- Chain of events and contributing factors: equipment, environment and human
- Investigation tools
- Evidence analysis and documentation; lamp inspection
- Damage and debris
- Interpretation of skids and other marks on the road
- Fundamentals of collision investigation math, review of high school algebra
- Drag factor and how to construct a drag sled
- Determination of variances for grades, super-elevation, and faulty brakes
- Mathematical formulas to determine speed estimates
- Fatigue awareness and countermeasures
- Field sketching methodology, templates
- Interview techniques: witnesses and employees
- Collision scene photography
- Assembly of collision investigation documentation, checklists, report writing
- Field exercises: determining the drag factor, grade, curve radius, field sketching and measurement
- Case studies and simulated investigations
- Pre-class algebra review, quizzes, homework, group presentations, exam

Who Should Attend

Individuals responsible for developing, administering, and implementing collision investigation policies and procedures; individuals responsible for on-scene investigation and follow-up reporting of transit bus collisions. Safety managers and supervisors, operations managers and supervisors, risk managers, field supervisors, maintenance managers and supervisors, and trainers of bus operators.

To Register Contact:

Jeanie M. Shaw, TTTC Coordinator

MTSU P.O. Box 596, Murfreesboro, TN 37132

Phone 1-888-879-6878

On-line registration : <http://www.mtsu.edu/~tttc/register.htm>