

2008 Schedule

- June 2-6, 2008 Los Angeles, CA
- July 7-11, 2008 St. Louis, MO
- August 4-8, 2008 Seattle, WA,

TSI's Website

The Federal Transit Administration, through the Transportation Safety Institute (TSI), Transit Safety and Security Division, offers a variety of safety and security training for the transit industry. To view all available transit safety and security training and the latest training schedule, go to TSI's website, transit section:

www.tsi.dot.gov

TSSP & WSO Certification

Transit Rail Incident Investigation is one of four core courses required for the Transit Safety and Security Program (TSSP) and one of several courses available for World Safety Organization (WSO) certification. See TSI's website for more information.

Registration

There are three ways to register for a TSI class: online, fax, or mail. See TSI's website for more information regarding registration.



www.tsi.dot.gov



U.S. Department of Transportation
Research and Innovative Technology Administration



Transit Rail Incident Investigation



People Moving People Into America's Future





Course Overview

This course is an introduction to transit rail, terminology, systems (operations, mechanical, track, signal/control, human factors) functionality and their failure modes, accident investigation procedures, and the tools utilized in support of a System Safety Program Plan and State Safety Oversight Regulations. It includes application of investigative procedures and documentation, photographic documentation, conducting interviews, interface with the media, preparation of a written report, determination of contributing factors, probable cause, and recommendations to prevent future occurrences.

Course Elements

- Rail components and terminology
- System safety, terms and definitions, hazard identification/analysis/resolution, hazard reduction process, safety critical processes
- Systems approach to accident investigation, types of investigations, notification process

- Implementing the investigation, investigating tools, managing and organizing the investigation, recovery and security of evidence
- Collecting accident information on-site and off-site
- Accident analysis, fact-finding, relationships, analytical techniques
- Determination of findings and conclusions, simultaneous conditions and sequential events, degrees of certainty, comparison of facts to the standard
- Recommendations, types of incidents, identification, evaluation, follow-up
- Photography, planning, and techniques
- Field sketching
- Media relations, role of the media, agency policies and procedures, suggested responses and behavior
- Interview techniques, identification and arrangement, factors that affect witness statements, interview questions
- Human factors, behavior, health and medical, training, job and task evaluation, equipment design/ergonomics, environment, internal/external records and documentation
- Fatigue awareness, effects on human performance, direct and indirect costs, organizational culture, and suggested countermeasures
- Report writing, purpose and use of accident reports, report outline, preparation of draft and final reports
- Collision investigations, types of rail operations, types of collisions,

Who Should Attend

- communication systems, mechanical systems, signal/control systems, checklists, on-site investigation, off-site investigation, and case studies
- Deraillment investigations, examples of derailments, deraillment causes (track, track structure, rail defects, vehicles, lateral to vertical ratio, determining the original point of deraillment, on-site investigation, off-site investigation
- Pretest, deraillment investigation field exercise, group presentations, quizzes, homework, final exam

- State Safety Oversight Reps
- SPP Implementers
- Rail Accident Investigators
- Safety Managers
- SPP Managers
- Rail Accident Analyzers
- Risk Managers
- Safety Supervisors
- Operations Managers
- Operations Supervisors
- Inspectors and Auditor
- Design Engineers
- Transit Emerg. Responders
- Maintenance Inspectors
- Federal, State, Local Officials