



U.S. Department of Transportation
Office of the Secretary of Transportation

Transportation Safety Institute Significant Accomplishments *2014*



ONSITE/OFFSITE/ONLINE COURSES

Accident & Crash Investigation

TSI employs subject matter experts for a wide array of accident investigation training:

- Aircraft, Rotorcraft, and Experimental Aircraft
- Collision Investigation
- Media Relations
- Rail Incident

Aviation Safety

TSI provides premier aviation safety training and technical assistance:

- Aviation Safety Program Management
- Internal Evaluation Program
- Safety Management Systems
- Heliport Evaluation

Hazardous Materials Transportation and Pipeline

TSI instructors are well versed in current regulations and provide up-to-date training in all areas related to the transportation of hazardous materials and pipeline safety, in accordance with Title 49 CFR:

- Specialized Hazardous Materials
- Performance-Oriented Packaging
- Cargo Tank Compliance
- Pipeline Safety Compliance

Human Factors

The prevention of injuries and fatalities is USDOT's highest priority and TSI leads the way in human factor training. TSI also provides extensive training for USDOT Drug and Alcohol Compliance for the motor carrier, aviation, and transit bus and rail industries:

- Aircraft and Rotorcraft Human Factors
- Reasonable Suspicion Determination
- Substance Abuse Management and Program Compliance
- Train-the-Trainer

Motor Carrier Safety Compliance

TSI provides performance-based motor carrier safety training, emphasizing the practical side of regulatory compliance:

- Commercial Motor Vehicle Periodic Inspection
- Safety Compliance
- Hours of Service

Traffic Safety

TSI trains safety professionals in a variety of highway traffic safety programs:

- Occupant Protection
- Data Analysis & Evaluation
- Impaired Driving Issues

Transit Safety & Security

TSI is the predominant source for bus and rail safety and security training in the United States:

- Managing Transit Emergencies
- Industrial Safety Management
- Safety Management Systems
- Bus and Paratransit Operator Training

Custom Designed Courses

TSI can develop and deliver professional safety training to fit the specific needs of your organization or agency. As a Federal fee-for-service organization, we are committed to providing economical, yet innovative, training methods and services that meet your training requirements. Your customized training program is just a phone call away! 800-858-2107

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Transportation Safety Institute *Significant Accomplishments 2014*

TRANSPORTATION SAFETY INSTITUTE

The Transportation Safety Institute (TSI) has provided high-quality safety and security training to Federal, State, and local governmental, private sector, and foreign transportation professionals for more than 40 years. As a Federal fee-for-service organization, TSI plays a critical role in supporting the U.S. Department of Transportation's (USDOT's) mission to ensure safety and security in the Nation's transportation system through instruction to both those entrusted with enforcement and those committed to compliance. TSI is part of the Office of the Assistant Secretary for Research and Technology (OST-R), whose mission is to advance multidisciplinary research, cutting-edge technologies and, ultimately, the promise of innovation to make the Nation's transportation system safer, more competitive, and sustainable today, tomorrow, and for future generations.

ABOUT THE TSI

TSI is organized into five training divisions with expertise in specific transportation safety and security topics. The most current cross-cutting subjects are taught by nationally recognized subject matter experts. In addition, TSI provides the administrative services necessary to support a full-service training organization, including Information Technology, facilities management, financial oversight, purchasing, contracts management, and human resources. TSI's headquarters is in Oklahoma City, OK, and is co-located with the Mike Monroney Aeronautical Center (MMAC), a large Federal Aviation Administration (FAA) facility.

NEW LEADERSHIP

TSI welcomed the Institute's sixth Director in 2014. Kevin C. Womack, Ph.D., F.ASCE, began his USDOT tenure as the Associate Administrator for Research, Development, and Technology within the former Research and Innovative Technology Administration. Prior to accepting this position, he was a Professor of Civil Engineering and Director of the Utah Transportation Center at Utah State University, where he began work in 1989. Dr. Womack has served as a Director for the American Society of Civil Engineers (ASCE), where he was also elected a Fellow in 2010. Dr. Womack's career experience as an accomplished university-level educator, University Transportation Center (UTC) Director, and his current responsibility for the USDOT's UTC program will complement and advance TSI's mission as a world-class training institution.

Christine Lawrence was appointed as TSI's first Senior Advisor and Liaison. She has served the Institute since 1995, when she became the first woman to hold the position of Senior Air Safety Investigator and subsequently selected as the Aviation Safety Division Manager in 1999. Prior to joining TSI, she held several positions with the FAA, including Aviation Safety Inspector, Airspace System Inspection Aircraft Commander pilot, Instrument Procedures Specialist and Developer, and Air Traffic Assistant. She has received numerous awards and recognitions from various organizations for her contributions to TSI, the USDOT, and the aviation safety community.

In addition, TSI welcomed Brian Rochester as the new Aviation Safety Division Manager. Prior to joining TSI,

Mr. Rochester held a position at the FAA Academy where he was an Aviation Safety Inspector and Course Manager specializing in airworthiness. Mr. Rochester served in the United States Air Force and the Air Force Reserves. He holds an advanced degree from Embry Riddle Aeronautical University in Aeronautical Science and Safety, and is a Doctoral candidate in Aviation and Space Science at Oklahoma State University.

With their strong backgrounds, Dr. Womack and Ms. Lawrence are leading Mr. Rochester and the rest of TSI's management team in charting the course for present and future TSI successes.

2014—A YEAR IN PERSPECTIVE

2014 was a year of continued success for TSI. Among the highlights:

- TSI trained more than 12,000 students and conducted nearly 400 classes in aviation, transit, highway traffic, hazardous materials, motor carrier, and pipeline safety.
- TSI encouraged public and private partnerships by fostering national and international partnerships to improve transportation safety. TSI's 2014 partners included nearly all USDOT Operating Administrations, the Department of Defense, and many universities, including the University of West Virginia, Texas Tech University, Washington State University, Oklahoma State University, and the University of Oklahoma.
- TSI coordinated implementation of the Advanced Roadside Impaired Driving Enforcement (ARIDE) online course, partnering with the Office of National Drug Control Policy and the National Highway Traffic Safety Administration.
- In support of the Moving Ahead for Progress in the 21st Century Act (MAP-21), TSI developed special training materials, introducing Safety



Management Systems (SMS) principles into all transit courses.

- TSI identified the lack of pipeline safety compliance

courses for corporations within the oil and gas industry and developed training to ensure oil and gas industry complies with Pipeline and Hazardous Materials Administration (PHMSA) regulations.

- TSI provided tours of the Institute's aviation accident investigation facilities, training aides, and accident aircraft to primary, secondary, and college academic institutions, thereby fostering career interest in the aviation, accident prevention, and aviation safety professions.

TSI DIVISIONS

Aviation Safety Division

TSI's Aviation Safety Division is home to the "National Aircraft Accident Investigation School." This team specializes in safety management systems and aircraft accident investigations with courses that cover aviation's most current technologies in all aspects of general and commercial civil aviation, as well as public-use aviation by Federal, State, and local governments. Staff provide training in aviation safety, accident investigation techniques, and safety management through workshops, field activities, individual studies, and hands-on training. The Aviation Safety Division's significant accomplishments in 2014 include:

- Graduates of the Division's National Aircraft Accident Investigation School continued to identify contributing factors to accidents and make recommendations for accident prevention. Alumni have been at the scene of more than 3,000 aircraft accidents over the last 2 years.
- The school trained more than 850 students and conducted more than 30 classes ensuring safety and efficiency within the national air space.
- The school provided aviation safety training targeted to operators of experimental aircraft by conducting Experimental Aircraft Accident Investigation classes.

Transit Safety and Security

TSI's Transit Safety and Security Division provides training and educational opportunities to the transit bus and rail industry. The staff develops and delivers innovative and responsive e-learning to meet the needs of today's changing transit industry. This team specializes in system safety, collision investigation,



crime prevention, and emergency management. Transit personnel throughout the United States attend trainings to attain the core competencies to operate, maintain, and manage public transportation systems. Significant 2014 accomplishments by the Transit Safety and Security Division include:

- Provided critical key elements and principles of SMS training related to MAP-21 at national industry conferences and trade association meetings.
- Received the RITA Administrator’s Superior Achievement Award for contributions to the advancement of transportation safety.
- Coordinated with the Federal Transit Administration to establish an industry wide National Public Transportation Certification Training Program.

Multi-Modal Safety Division

TSI’s Multi-Modal Safety Division provides a variety of transportation safety-related courses to Federal, State, and private industry audiences, including hazardous materials transportation and motor carrier safety compliance. Training includes field activities to prepare participants for immediate transfer of information from a classroom to on-the-job situations while emphasizing the practical side of regulatory compliance. Significant 2014 accomplishments by the Multi-Modal Safety Division include:

- Conducted a record-breaking 175 classes and trained nearly 2,200 students.
- Signed an agreement to assist the USDOT and the National Consortia on Remote Sensing in Transportation, including knowledge transfer and

best practices in the application of Remote Sensing technologies and techniques.

- Doubled the number of specially designed Department of Defense 80-hour Transportation of Hazardous Materials classes conducted across the United States.

Highway Traffic Safety

TSI’s Highway Traffic Safety staff provides state-of-the-art classroom, virtual online, and self-paced e-learning training opportunities to the highway safety community. The team specializes in the professional development of highway safety and law enforcement personnel throughout the country. These trainings provide the skills to manage highway safety programs that reduce traffic crashes, fatalities, and injuries. Significant accomplishments in 2014 by the Highway Traffic Safety Division include:

- Delivered more than 40 courses, which trained approximately 1,000 professionals in the development and management of highway safety programs.
- Coordinated implementation of the Advanced Roadside Impaired Driving Enforcement (ARIDE) online course, training more than 1,124 law enforcement officers in 2014.
- Added an integral course to the development of highway safety countermeasures, specifically communications for the Highway Safety Professional.



Special Programs Division

TSI’s Special Programs Division is fully entrepreneurial, offering customized courses and services to meet



changing customer demands. Services include course development, program management, event coordination, and other administrative services. This division continues to develop a line of business designed for the oil and gas industry, specifically Pipeline Safety Compliance (PSC) training. Significant 2014 accomplishments by the Special Programs Division include:

- Doubled the number of PSC classes held, including special offerings in North Dakota and Alaska, and
- Partnered with the USDOT's Intelligent Transportation Systems-Joint Programs Office to develop targeted case studies.

Looking Ahead...

TSI has several promising initiatives under development. As the only authorized non-Department of Defense training organization, TSI continues to provide world-wide hazardous materials transportation safety training to Department of

Defense personnel. Growth of this enterprise is expected to double in 2015, ensuring the safe transport of hazardous goods across oceans, on land, and in the air. In addition, TSI will expand its influence of Safety Management Systems (SMS). Already an aviation standard, TSI will introduce SMS concepts and techniques to practitioners in the public transit industry. This progressive SMS training is designed to create a safer public transit system and satisfy MAP-21 requirements. Beginning in 2015, TSI will host peer exchange workshops focused on the latest innovations in remote sensing for transportation. Experts from across the country will gather to share experiences and best practices to further this cutting-edge science as it relates to the transportation industry. The goal of safer transportation permeates everything TSI does and influences the Institute's future. As technologies and techniques change, so does the curriculum at TSI. More sophisticated materials, safety systems, and infrastructure ensure more advanced training for the transportation safety professionals of tomorrow.

WITH THANKS TO OUR 2014 CUSTOMERS AND PARTNERS

U.S. Department of Transportation (USDOT)

Office of the Secretary of Transportation (OST)

Federal Aviation Administration (FAA)

Airports Organization

Aircraft Certification Service

Air Traffic Organization

Designee Standardization Branch

Engineering Procedures Office

FAA Academy

Flight Standards Services

Flight Standards Training Division

Office of Accident Investigation

Office of Aerospace Medicine, Civil Aerospace

Medical Institute

Office of Commercial Space Transportation

Office of Security and Hazardous Materials

Unmanned Aircraft Systems Integration Office

Federal Highway Administration (FHWA)

Intelligent Transportation Systems Joint

Program Office

National Highway Institute

Federal Transit Administration (FTA)

Office of Safety and Security

National Highway Traffic Safety Administration (NHTSA)

Pipeline and Hazardous Materials Safety

Administration (PHMSA)

Office of Training and Qualification

Other Federal

Department of Defense (DOD)

Foreign Military Sales

U.S. Air Force

U.S. Air National Guard

U.S. Army

U.S. Army National Guard

U.S. Army Reserves

U.S. Marine Corps

U.S. Navy

Department of Homeland Security (DHS)

Federal Emergency Management Agency

Transportation Safety Administration

U.S. Customs and Border Protection

U.S. Coast Guard

Department of Interior (DOI)

National Parks Service

Department of Justice (DOJ)

Federal Bureau of Investigation

National Aeronautics and Space Administration (NASA)

Office of National Drug Control Policy (ONDCP)

State and Local

State of Oklahoma

Department of Public Safety

Department of Transportation

State of South Dakota

Department of Health

State of Wyoming

Department of Health

State Highway Safety Offices

State and local transit agencies

State highway traffic safety offices

State and local law enforcement agencies

State and local judicial branches

Foreign Entities

Australia

Canada

Federal Republic of Germany

Japan

State of Kuwait

Peoples Republic of China

Civil Aviation Authority

Republic of Poland

Republic of Turkey

Civil Aviation Authority

United Arab Emirates

Dubai

Others

American Association of State Highway Transportation
Officials

American Bar Association

American Probation and Parole Association

Commercial Vehicle Safety Alliance

Experimental Aircraft Association

Governors Highway Safety Association

International Association of Chiefs of Police

International Association of Directors of Law

Enforcement Standards and Training

International Society of Air Safety Investigators

Judicial Outreach Liaisons

Mayo Clinic Research Department

National Association of Air Medical Services

National Center for State Courts

National District Attorneys Association

National Joint Helicopter Safety Action Team

National Judicial College

National Sheriffs' Association

Oklahoma State University

State Attorney General Offices

Texas Tech University

Traffic Safety Resource Prosecutors

Transportation Research Board

University of Oklahoma

University of West Virginia

Washington State University

TRAINING

TSI develops and conducts customized training courses in a variety of formats, from traditional classroom settings to internet-based instruction.

SAFETY & SECURITY

TSI annually trains thousands of students from around the world in more than 140 transportation safety and security courses.

INNOVATION

TSI creates an adult learning environment geared to speed the application of training back at the job.

“Innovative Training for a Nation on the Move”

Transportation Safety Institute

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