



Transportation Training Resources

***A Summary of Fee-for-Service Courses
Available to International Counterparts
at the Training Institutes and Technology Centers
of the U.S. Department of Transportation***

Prepared by the
Office of International Transportation and Trade
Office of the Secretary of Transportation

September 2006

Table of Contents

- Introduction 1**
- Center for Management and Executive Leadership 3**
 - Course Offerings 3
 - Workshops 3
 - Correspondence Courses..... 4
- Federal Aviation Administration Academy 5**
 - Selected International Course Offerings..... 5
- Global Maritime and Transportation School 6**
 - Transportation, Logistics, and Management Programs 6
 - Nautical Science Programs 6
 - Marine Engineering Programs..... 7
- National Highway Institute 8**
 - Structures 8
 - Pavements and Materials 8
 - Geotechnical 8
 - Design and Traffic Operations 9
 - Construction and Maintenance 9
 - Hydraulics..... 9
 - Intelligent Transportation Systems (ITS) 9
 - Freight and Transportation Logistics 9
 - Real Estate..... 9
 - Environment..... 9
 - Transportation Planning 10
 - Business, Public Administration, and Quality..... 10
 - Civil Rights 10
 - Highway Safety 10
- National Transit Institute 11**
 - Transit Program Management and Compliance..... 11
 - Management Development 11
 - Multimodal Transportation Planning 11
 - Workplace Safety and Security 11
 - Advanced Technologies 12
- Transportation Safety Institute 13**
 - Aviation..... 13
 - HAZMAT..... 13
 - Highway 13
 - Motor Carrier 14
 - Transit..... 14
- Transportation Technology Center..... 15**
 - Railroad/Rail Transit Training..... 15
 - Emergency Response Training Center 15
- John A. Volpe National Transportation Systems Center 17**
 - Overview of the Volpe Center..... 17
 - Training..... 17

Introduction

The U.S. Department of Transportation (DOT) is charged with the planning, management and oversight of one of the largest and most complex transportation systems in the world. The U.S. transportation system annually provides over 4.9 trillion passenger miles of travel and 3.8 trillion ton miles of domestic freight generated by 281 million people, 7.1 million business establishments and 88 thousand government units. The system includes 3.9 million miles of public roads, 122 thousand miles of major railroads and 26 thousand miles of navigable waterways served by 321 ports. It includes over 5 thousand public-use airports serving 630 million passengers annually, 800 public transit operators serving urban areas and 300 transit operators serving rural areas.

Since its formation in 1967, DOT's transportation programs have evolved to meet the rapidly changing economic, safety and security demands of the United States. The Department implements these programs under the Office of the Secretary of Transportation through key operating administrations, organized by mode of transportation:

- Federal Aviation Administration
- Federal Highway Administration
- Federal Motor Carrier Safety Administration
- Federal Railroad Administration
- Federal Transit Administration
- Maritime Administration
- National Highway Traffic Safety Administration
- Pipeline and Hazardous Materials Safety Administration
- Research and Innovative Technology Administration
- Saint Lawrence Seaway Development Corporation

Within this organization, a dedicated staff of almost 60,000 DOT employees carries out the Department's broad mandate. Not surprisingly, an extensive knowledge base has been developed across the spectrum of transportation modes over the years. A need to perpetuate and continually upgrade this expertise has been long recognized. To ensure that DOT employees are optimally trained to execute their mission, and to further disseminate this knowledge to our partners at the state and local levels, DOT's modal administrations operate dedicated educational institutes with diverse and specialized curricula, focusing on best transportation planning, operation and oversight practices. In addition, several specialized technology centers provide research & development and technology assistance functions, and are often a source of more specialized training and technical assistance. Each of the DOT training institutes and centers has its own mandate and operates independently from the others, but the programs, viewed as a whole, offer a comprehensive and extensive curriculum – a virtual “University of Transportation.”

As an extension of its domestic responsibilities to ensure transportation safety, and in recognition of the role of transportation systems in stimulating trade and economic development for the United States and its friends around the world, DOT views international outreach as a core mission. In addition to our normal coordination and cooperative activities with our international transportation counterparts, we recognize the mutual benefit of sharing our knowledge and supporting the transfer of technology to our partner nations. In this context, while DOT does not have funding for training of the managers and staffs of our international counterpart agencies, we are pleased to make the courses of our training institutes available on a fee-for-service basis to official trainees from other countries. These courses are open to qualified, admitted staff of our overseas counterpart agencies and institutions who are able to arrange for their own course funding, or where third party funding institutions, either U.S. or international, will fund the cost of the training.

This compendium of transportation training courses available to DOT's international counterparts has been compiled as a comprehensive resource and guide. It provides a snapshot of the breadth and depth

of training which has been offered in the recent past. Not all courses may be available at any given time. However, most of DOT's training institutes are also able to prepare curricula on demand for international counterpart clients, and in many cases, special courses can be delivered in many locations around the world. The most up to date curriculum lists may be found each institute's web site, and additional information on training and accommodations may be obtained directly from each institute.

For additional assistance in identifying specialized fee-for-service training within the DOT network, contact:

Fred Eberhart
Senior Adviser, International Cooperation and Trade
Office of the Secretary
U.S. Department of Transportation
Office International Transportation and Trade (X-20)
400 7th Street, SW, Room 10300
Washington, DC 20590
Phone: 202-366-1735
Fax: 202-366-7417
Fred.Eberhart@dot.gov

Center for Management and Executive Leadership

Federal Aviation Administration, Palm Coast, Florida (FAA Academy)

Address: 4500 Palm Coast Parkway, S.E.
Palm Coast, FL 32137-8077
Contact: Shepherd Curl
Phone: (386) 446-7132
Fax: (386) 446-7133
Email: shepherd.curl@faa.gov

The FAA Center for Management and Executive Leadership (CMEL) is a full service training, conferencing and development resource in an ideal setting at Palm Coast, Florida. A division of the FAA Academy, CMEL is available to Government leaders, managers, supervisors, and other public sector personnel, and provides for participation in established courses as well as made to order programs and conferences. The thrust of much of CMEL training is to strengthen leadership, management, supervisory, and interpersonal skills. Although courses can be tailored to meet specific needs, training typically ranges in length from half a day to eight days. CMEL also delivers training at locations throughout the world. For more information, please visit our website at: <http://www.cmel.faa.gov/>.

Course Offerings

Building Effective Agreements
Change Agent Workshop
Coaching and Mentoring
Constructive Conflict Management: The Choices We Make
Effective Communication Skills
Facilitator Training Course
Frontline Manager Course-Phase 1: Fundamentals of Frontline Management (Online course)
Frontline Manager Course-Phase 2: Managing for Results
Frontline Manager Course-Phase 3: Managing for High Performance
Influence, Inquiry & Implications: A Leader's Path to the Future
Labor Management Relations
Leadership Development and Labor Relations
Leadership Development Program, Phase I
Leadership Development Program, Phase II
Managerial Coaching and Mentoring Course
Managing Change
Managing Performance
Managing Performance Employee Training

Measuring Organizational Performance
Measuring Organizational Performance Workshop
Mediation Techniques for Conflict Resolution)
Middle Manager Course
Negotiating Effectively
Performance Planning and Budget Integration
Presentation Techniques
Staff Study Fundamentals
Strategic Planning
Strategic Planning Through the Power of Vision
Strategy Implementation for Managers (SIM)
Systems Thinking
Team Leader Course
Team Workshop
Working Together Effectively using Collaborative Team Processes
Writing an Effective Self Assessment

Workshops

Balanced Scorecard
Basic Principles of Interest-Based Bargaining
Combating Negativity
Critical Examination of Mental Models
Effective Questioning: A Different Way to Communicate
Ethics: Impact and Challenges
The FAA Budget in Brief
FAA Guidance on Conduct and Discipline
Facilitator Tools for Effective Meetings
Implications Charting: Analyzing Systems Problems
Improving Work Processes
Influencing Skills
Introduction to Myers Briggs Type Indicator
Introduction to the Project Management Process
Introduction to Staff Studies
Labor Management Relations: Understanding the Answers
Managing Conflict
Managing Others Through Change
Managing Performance
Managing Your Workload for Success
Managing Yourself Through Change
Mediating Conflict
Problem Solving
Strategic Planning: Navigating Toward the Future
Taking Responsibility for Your Own Stress
Using an Interest-Based Approach to Building Agreement
Working Styles and Team Effectiveness
Workplace Violence: What Everyone Should Know

Center for Management and Executive Leadership (Continued)

Correspondence Courses

Briefing and Presentation Techniques

Staff Work

Effective Discipline in a Changing Workplace

Report Analysis and Consolidation

Interpersonal Skills for the Leadership

Building Organizations and Managing Work

Introduction to Basic Labor Relations

The FAA Budget Process

Federal Aviation Administration Academy

Federal Aviation Administration, Oklahoma City, Oklahoma

Mike Monroney Aeronautical Center
ANF-1, Room 220
6500 South MacArthur
Oklahoma City, OK 73169
Contact: Sunny Lee-Fanning
Phone: 1-405-954-3508
Fax: 1-405-954-4779
Email: 9-amc-ama-itd@faa.gov

The FAA Academy in Oklahoma City is the principal source of aviation technical training for the agency and provides training for more than 60,000 students each year. Training is provided through resident, field delivered, computer-based instruction, the aviation training network, and correspondence courses to a variety of occupational specialties. Trainees include air traffic control system personnel, electronic technicians, system specialists, and engineers in the maintenance and installation of electronic systems used in air traffic control and air navigational systems, manufacturing inspectors, and aviation safety inspectors, FAA and non-FAA airport personnel, and international civil aviation personnel. Additional information is available on the web at: www.academy.faa.gov/.

Selected International Course Offerings

Recurrent Engineering
Recurrent Planning
Land Appraisal and Title Option
FAR Part 139 - Recurrent Training
Airport Improvement Program-Programming Recurrent
Recurrent Environmental Procedures
Passenger Facility Charge (PFC) Recurrent
Airport Certification Procedures
Introduction to Airport Development
Recurrent Compliance
Airport Planning and Design
Airport Compliance Requirements
Airport Certification for Non-FAA Employees
Recurrent Airports Financial Assistance
Airport Noise and 14 CFR, Part 150 Noise Studies
System of Airports Reporting (Soar)

Introduction to Airport Development (Correspondence)
Airport Planning Criteria
Introduction to Airport Lighting, Marking, and Nav aids
Basic Supervisory Training (International)
Advanced Manager Training (Instructor)
Introduction to Aviation English (International)
English for Air Traffic (International)
Instructor Development: Aviation English
FAA Procedures for Air Operators Certification (Operations) - International
Operations Inspector Indoctrination (International), Phase 2
FAA Procedures for Air Operator Certification (Airworthiness) - International
Airworthiness Inspector Indoctrination (International), Phase 2
Suspected Unapproved Parts (SUPS) - International
Establishing a Maintenance Certification Program (International)
ILS Flight Inspection for AF TECH/Eng (International)
VOR/DME Flight Inspection for AF TECH/Eng (Int'l)
Fundamentals of ATC (International)
Air Traffic Procedural Control (International)
Aerodrome Control Training (International)
Radar Approach Control Training (International)
Area Radar Control Training (International)
Customized Air Traffic Training (International)
International ATC OJT Instructor Training
Air Traffic Quality Assurance Program (International)
Air Traffic Training Administration (International)
Air Traffic Radar Simulation Development Course
CNS/ATM
ICAO PANS Ops
PANS Ops Using GNSS
ICAO Endorsed Government Aviation Safety Inspector (Operations)
ICAO Endorsed Government Aviation Safety Inspector (Airworthiness)
Train-The-Trainer (TTT) For ICAO GSI Training
Customized TTT for ICAO GSI Training

Global Maritime and Transportation School

U.S. Maritime Administration, United States Merchant Marine Academy, Kings Point, New York

300 Steamboat Road
Kings Point, NY 11024
Contact: Brian Holden, Division Manager
Research and Special Projects
Phone: 516-773-5692
Fax: 516-773-5353
Email: holdenb@usmma.edu

The United States Merchant Marine Academy (USMMA), the four year undergraduate program and federal maritime academy, operates the "Global Maritime and Transportation School" commonly known as "GMATS." The mission of GMATS is to prepare private-sector, government, and military professionals to be global leaders and innovators in maritime operations, intermodal systems, and transportation security. GMATS provides world-class professional education and training programs (including instructional services, research studies, and technical assistance that enhance the safety, security, efficiency, and environmental soundness of maritime operations and global transportation systems).

In addition to more than 140 course offerings for mariners, maritime professionals, and other transportation industry practitioners, GMATS regularly develops and offers customized education and training programs in nautical science, marine engineering, intermodal transportation, security, logistics, maritime business, leadership and management. These custom programs are delivered on- or off-site.

For further information and a current course listing, the GMATS website is: <http://gmats.usmma.edu/>.

GMATS also offers technical assistance services, maritime operations expertise, and research studies in the following general subject areas:

Shipboard operations
Navigation, seamanship, and shiphandling
Marine and intermodal terminal operations
Marine engineering operations, maintenance, and repair
Maritime and transportation security
Maritime business and economics
Maritime industry leadership, process improvement, and business ethics
Maritime training and education administration

Selected Course Titles

Transportation, Logistics, and Management Programs

Admiralty and Maritime Law
Advanced Bulk Commodities Workshop
Advanced Business Operations in the Tanker Industry
Advanced Logistics Strategies for Overseas Markets
Business Logistics Management
Company Security
Crisis Management in Transportation
Decision Making
Ethics Seminar
Facility Security
Forging Powerful Partnerships
Fundamentals of Chartering and Brokerage
Hazardous Waste Operations and Emergency Response
Interaction Management
Intermodal Surface Freight Transportation
International Port Management and Intermodal Transport Program
Introduction to Freight Transportation Systems and Planning
Introduction to Longshoring and Marine Terminal Process
Introduction to the Maritime Industry
Introduction to the Tank Vessel Shipping Industry Leadership
Marine Insurance
Maritime Antiterrorism and Crisis Management
Maritime Business and International Trade
Media Coaching
Personal Organization and Time Management
Railroad Operations and Intermodal Management
Seaport and Marine Terminal Operations
Ship Security
Supply Chain and Cargo Security
Supply Chain End to End Distribution
Transportation and Storage of Hazardous Materials

Nautical Science Programs

Able Seaman
Advanced Navigation
Basic and Advanced Marine Firefighting
Bridge Resource Management
Cargo Loading, Stowage, and Discharging Operations
Chemical Tanker Training

Global Maritime and Transportation School (Continued)

Nautical Science Programs (continued)

Crisis Management and Human Behavior
Crowd Management and Passenger Safety
Electronic Chart Display Information Systems (ECDIS)
Electronic Navigation
Fast Rescue Boat
Global Maritime Distress and Safety System (GMDSS)
Liquefied Gas Tanker Training
Marine Communications
Navigation (Terrestrial and Celestial)
Oil Tanker Training
Proficiency in Survival Craft
RADAR Observer
RADAR/Automatic RADAR Plotting Aids (ARPA)
Seamanship
Shipboard Safety
Basic and Advanced Shiphandling
Small Vessel Operations
STCW Basic Safety Training
Vessel Boarding, Search, and Inspection
Vessel Traffic Management Systems
Visual Communications

Marine Engineering Programs

Welding and Pipefitting
AutoCAD
Marine Auxiliary Systems
Fundamentals of Diesel Engines
Gas Turbine Systems

Machine Shop
Marine Refrigeration
Marine Diesel Surveyors
Maritime Engineering Management
Pump Operations, Maintenance, and Troubleshooting
Programmable Logic Controllers
Qualified Member of the Engine Department (QMED)
Repair Techniques for Slow and Medium Speed Diesel Engines
Marine Engineering Orientation
Steam Refresher
Steam Engineering Program
Diesel Engineering Program
Analysis of Shipboard Vibrations
Basic and Advanced Alignment Techniques
Crosshead Diesel Engines
Fitter Mechanics
Marine Engineering Economics
Motorman
Offshore Industry Training
Power Plant Emergency Diesel Maintenance and Operation
Contract Management
Shipboard Maintenance and Repair
Engine Room Management
Shipyards Operations and Management
Fuels Seminar
Maritime Project Management

National Highway Institute

Federal Highway Administration, Arlington, Virginia

4600 N Fairfax Drive, Suite 800
Arlington, VA 22203
Contact: NHI Training
Phone: (703) 235-0534
Fax: (703) 235-0593
Email: NHITraining@fhwa.dot.gov

The National Highway Institute (NHI) was established to provide technical training for Federal, State and local transportation professionals and private industry. Created in 1970 by Federal legislation, the NHI develops and administers transportation related training and education programs that assist in applying new technologies to the planning, design, construction, maintenance, and rehabilitation of the Nation's transportation infrastructure.

By congressional mandate, the NHI also serves the international community with training and education programs. The NHI is one of 81 Technology Transfer Centers of the Pan American Institute of Highways. In this role it conducts and promotes training courses, seminars, and conferences, as well as professional exchanges, to transportation organizations around the world. The NHI website is: <http://www.nhi.fhwa.dot.gov/>.

Selected Course Titles

Structures

Bridge Inspection Refresher Training
Engineering Concepts for Bridge Inspectors
Safety Inspection of In-Service Bridges
Vessel Collision Design of Highway Bridges
Hazardous Bridge Coatings: Design and Management of Maintenance and Removal Operations
Fracture Critical Inspection Techniques for Steel Bridges
Bridge Coatings Inspection
LRFD for Highway Bridge Superstructures
LRFD for Highway Bridge Substructures and Earth Retaining Structures
Inspection and Maintenance of Ancillary Highway Structures
Bridge Construction Inspection
Soils and Foundations Workshop
Drilled Shafts

Driven Pile Foundations - Design and Construction
Geotechnical Aspects of Pavements
Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes
Micropile Design and Construction

Pavements and Materials

Highway Materials Engineering
Pavement Subsurface Drainage Design
Hot-Mix Asphalt Construction
Hot-Mix Asphalt Production Facilities
Hot-Mix Asphalt Materials, Characteristics, and Control
Asphalt Pavement Recycling Technologies
Pavement Preservation: The Preventive Maintenance Concept
Pavement Preservation: Selecting Pavements for Preventive Maintenance
Concrete Pavement Design Details and Construction Practices
Portland Cement Concrete Pavement Evaluation and Rehabilitation
Hot-Mix Asphalt Pavement Evaluation and Rehabilitation
Introduction to Mechanistic Design for New and Rehabilitated Pavements
Pavement Smoothness: Use of Inertial Profiler Measurements for Construction Quality Control
Pavement Preservation: Design and Construction of Quality Preventive Maintenance Treatments
Pavement Preservation: Integrating Pavement Preservation Practices and Pavement Management
Analysis of PMS Data for Engineering Applications
Transportation Asset Management
Principles and Practices for Enhanced Maintenance Management Systems

Geotechnical

LRFD for Highway Bridge Substructures and Earth Retaining Structures
Soils and Foundations Workshop
Geosynthetics Engineering Workshop
Drilled Shafts
Driven Pile Foundations - Design and Construction
Driven Pile Foundations - Construction Monitoring
Subsurface Investigations
Soil Slope and Embankment Design and Construction

National Highway Institute (Continued)

Geotechnical (Continued)

Ground Improvement Techniques
Rock Slopes
Earth Retaining Structures
Shallow Foundations
Geotechnical Aspects of Pavements
Geotechnical Instrumentation
Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes
Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes
Driven Pile Foundation Inspection
Drilled Shaft Foundation Inspection
Micropile Design and Construction
Subsurface Investigation Qualification
Inspection of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes

Design and Traffic Operations

Capacity and Quality of Flow
Computerized Traffic Signal Systems
Traffic Signal Design and Operation
Managing Traffic Incident and Roadway Emergencies
Freeway Traffic Operations
Access Management, Location and Design
Advancing Transportation Systems Management and Operations

Construction and Maintenance

Bridge Construction Inspection
Principles of Writing Highway Construction Specifications
Value Engineering Workshop
Highway/Utility Issues
Bridge Maintenance Training
Managing Highway Contract Claims: Analysis and Avoidance
Materials Control and Acceptance - Quality Assurance
Use of Critical Path Method (CPM) for Estimating, Scheduling and Timely Completion
Pontis Bridge Management
Alternative Contracting

Hydraulics

River Engineering for Highway Encroachments
Urban Drainage Design
Stormwater Pump Station Design
River Analysis System
Stream Stability and Scour at Highway Bridges
Stream Stability and Scour at Highway Bridges for Bridge Inspectors

Countermeasure Design for Bridge Scour and Stream Instability
Culvert Design
Introduction to Highway Hydraulics
Practical Highway Hydrology
Surface Water Modeling System with Flo DH and SMS
Hydrologic Analysis and Modeling with WMS
Introduction to Highway Hydraulics Software

Intelligent Transportation Systems (ITS)

ITS Awareness Seminar
Deploying Integrated ITS - Metropolitan
ITS Telecommunications Overview
Rural ITS Toolbox
Deploying the National Intelligent Transportation System (ITS) Architecture
Web-Based Introduction to National ITS Architecture
ITS Software Acquisition
Intelligent Transportation System (ITS) Procurement
CORSIM Traffic Simulation Model Training
Introduction to Systems Engineering for Advanced Transportation
Managing High Technology Projects in Transportation
Turbo Architecture Software Training
Configuration Management (CM) for Traffic Management Systems

Freight and Transportation Logistics

Integrating Freight in the Transportation Planning Process
Uses of Multimodal Freight Forecasting in Transportation Planning

Real Estate

Basic Relocation
Advanced Relocation
Business Relocation
Web-Based Real Estate Acquisition under the Uniform Act: An Overview

Environment

NEPA and Transportation Decision Making
Fundamentals and Abatement of Highway Traffic Noise
Functional Assessment of Wetlands
Public Involvement in the Transportation Decision-Making Process
Fundamentals of Title VI/Environmental Justice

National Highway Institute (Continued)

Environment (Continued)

Fundamentals of Title VI/Environmental Justice
The CMAQ Program: Purpose and Practice
Implications of Air Quality Planning for Transportation
Pedestrian Facility Design
Bicycle Facility Design
Water Quality Management of Highway Runoff
Beyond Compliance: Historic Preservation in Transportation Project Development
Context Sensitive Solutions
Design and Implementation of Erosion and Sediment Control
Estimating Regional Mobile Source Emissions

Transportation Planning

Application of the FHWA Traffic Monitoring Guide
Administration of FHWA Planning and Research Grants
Introduction to Statewide Transportation Planning
Applying GIS and Spatial Data Technologies to Transportation
Linking Planning and NEPA: Towards Streamlined Decision Making
Safety Conscious Planning: Planning it Safe
Introduction to Urban Travel Demand Forecasting
Metropolitan Transportation Planning
Estimating Regional Mobile Source Emissions
Highway Program Financing

Business, Public Administration, and Quality

Federal Lands 101
Federal-Aid 101 (FHWA Employee Session)
Federal-Aid Highways 101 (State Version)
Conducting Reviews that Get Results (FHWA)

Civil Rights

On the Road to Equality: Women in Highway Construction
Partnering for Native American Employment in Highway Construction

Highway Safety

Access Management, Location and Design
Pedestrian Facility Design
Bicycle Facility Design
Safety Conscious Planning: Planning it Safe
Design and Operation of Work Zone Traffic Control
Railroad-Highway Grade Crossing Improvement Program
AASHTO Roadside Design Guide
Design, Construction, and Maintenance of Highway Safety Appurtenances and Features
Work Zone Traffic Control for Maintenance Operations (Short Term)
Construction Zone Safety Inspection
Road Safety Audits and Road Safety Audit Reviews
Safety and Operational Effects of Geometric Design Features for Two-Lane Rural Highways
Interactive Highway Safety Design Model
Advanced Work Zone Management and Design
Fundamentals of Planning, Design and Approval of Interchange Improvements to the Interstate System
Designing and Operating Intersections for Safety
New Approaches to Highway Safety Analysis
Low-Cost Safety Improvements Workshop
Intersection Safety Workshop

National Transit Institute

Federal Transit Administration, Rutgers University, New Brunswick, New Jersey

120 Albany Street
Tower Two, Suite 250
New Brunswick, NJ 08901-2163
Contact: Paul J. Larousse, Director
Phone: 732.932.1700
Fax: 732.932.1707
Email: plarousse@nti.rutgers.edu

The National Transit Institute's (NTI) mission is to provide training, education, and clearinghouse services in support of public transportation and quality of life in the United States. Established in 1992, the National Transit Institute develops and delivers training and education programs for the transit industry, government officials, and the public at large. NTI programs are developed in collaboration with the Federal Transit Administration and other transportation organizations at all levels. NTI identifies needs; promotes, develops, and delivers high quality programs and materials through cooperative partnerships with industry, government, institutions, and associations; and serves as a catalyst for enhancing skills and performance in public transportation. Additional information on NTI is available online at our web site: <http://www.ntionline.com/>.

Selected Course Titles

Transit Program Management and Compliance

Accessible Pedestrian Signals
Comprehensive ADA Paratransit Eligibility
Disadvantaged Business Enterprise
Management of Transit Construction Projects
Managing the Cost of ADA Paratransit Services
Overview of Transit Procurement for Senior Leadership
Paratransit Scheduling and Dispatching Fundamentals
Procurement Series - I - Orientation to Transit Procurement
Procurement Series - II - Basic Cost and Price Analysis and Risk Assessment
Procurement Series - III - RFP's and Competitive Contract Negotiations
Procurement Series - IV - Contract Administration
Quality Assurance and Quality Control in Transit Projects
TEAM-Web (Transportation Electronic Award Management)

Management Development

Changing to Supervision
Commuter Benefits Program - Staff Course
Coordinated Mobility: A Unified Transportation Management Solution
Effective Supervision in Transit
Human Resources Practitioner Series: Module I - The Role of Human Resources Management in Transit
Human Resources Practitioner Series: Module II - Managing the Employment Process
Human Resources Practitioner Series: Module III - Compensation & Benefits
Human Resources Practitioner Series: Module IV - Human Resource Development
Market-Based Ridership Strategies
Senior Leadership
Transit Academy
Transit Marketer: Module I - Market Outreach
Transit Marketer: Module II - Revenue Generation
Transit Marketer: Module III - Communications Management
Transit Marketer: Module IV - Advertising

Multimodal Transportation Planning

Context Sensitive Solutions in a Multi-Modal Environment
Financial Planning in Transportation
Introduction to Transportation/Air Quality Conformity
Managing the Environmental Process
Metropolitan Transportation Planning
Multimodal Travel Forecasting
Public Involvement in Transportation Decision Making
Safety Conscious Planning
Statewide and Metropolitan Transportation Programming
Statewide Transportation Planning

Workplace Safety and Security

Building Diversity Skills in the Transit Workplace
Building Diversity Skills in the Transit Workplace (Direct Delivery)
Harassment Prevention for Transit Employees (Direct Delivery)
Harassment Prevention for Transit Supervisors (Direct Delivery)

National Transit Institute (Continued)

Workplace Safety and Security (Continued)

Harassment Prevention Train-the-Trainer

Infectious Disease Awareness and Prevention

Musculoskeletal Disorder Awareness and

Prevention (Direct Delivery)

System Security Awareness for Commuter

Railroad Employees

System Security Awareness for Passenger Vessel

Employees

System Security Awareness for Transit Employees

System Security Awareness for Transportation

Employees

Terrorist Activity Recognition and Reaction

Toolbox for Transit Operator Fatigue: Putting the

Report into Action

Violence in the Transit Workplace – Prevention,
Response and Recovery

CD-ROMS, Videos, Fact Sheets, and Pocket
Guides

Advanced Technologies

BRT Course: Exploring the Potential of Bus Rapid
Transit

BRT Regional Workshops

Flexible Community Transit Services: Planning,
Design & Technology

Intelligent Transportation Staffing

ITS for Transit: Applications, Costs and Benefits

Managing Information for Success

Multimodal Traveler Information Systems

Rural ITS

Transportation Safety Institute

Research and Innovative Technology Administration, Oklahoma City, Oklahoma

P.O. Box 25082
Oklahoma City, OK 73125-0082
Contact: Frank Tupper, Director
Phone: (405) 954-3153
E-Mail: Director@tsi.jccbi.gov

The Transportation Safety Institute (TSI), located in Oklahoma City, Oklahoma, was established in 1971 to assist the Department of Transportation operating administrations in accomplishing their mission essential training requirements. TSI serves as the primary source of transportation safety training on domestic and international levels for Federal, State, and local government agencies and industry. Examples of training include programs specializing in Aviation Safety, Hazardous Materials, Transit Safety, Highway Safety, Motor Carrier Safety, and Pipeline Safety. TSI operates on a fee-for-service basis and receives funding by user/sponsor organizations through reimbursable agreements, tuitions and fees. Training is conducted at onsite and offsite locations throughout the world. TSI has currently trained over 600,000 students. A description of TSI services and our most current course catalog may be found at our web site: <http://www.tsi.dot.gov>.

Selected Course Titles

Aviation

Aviation Safety Program Manager (ASPM)
Aircraft Cabin Safety Investigation
Overview of Flight Procedures Development
Advanced Rotorcraft Accident Investigation
Media Relations in Aircraft Accident Investigation
Advanced Aircraft Accident Investigation
Human Factors in Aircraft Accident Investigation
Basic Aircraft Accident Investigation
Aircraft Accident Investigation First Responder Seminar
Experimental Aircraft Accident Investigation
Airspace System Inspection Pilot/Technician (International) (AVN)
Flight Procedures Office Training Course
Rotorcraft Accident Investigation
Turbine Engine, Aircraft Accident Investigation
Introduction to Flight Procedures (TERPs) (AVN)
Area Navigation (RNAV) Approach Construction (Automated) (AVN)

Instrument Approach Procedures Automation (IAPA)
Internal Evaluation Program (IEP) for Managers
Internal Evaluation Program (IEP) for Evaluators
Area Navigation (RNAV) Approach Construction (Manual)
Introduction to Aeronautical Charts

HAZMAT

Specialized Hazardous Materials: Cylinders
Transportation of Hazardous Materials
Infectious Substance Transportation
Military Airlift of Hazardous Materials
Performance Oriented Packaging
Air Transportation of Hazardous Materials
Specialized HAZMAT: Explosives
Specialized HAZMAT: Radioactive Materials
Specialized HAZMAT: Hazardous Waste/ Substance
Cargo Tank Regulatory Compliance
Hazardous Materials Compliance and Enforcement
International Maritime Dangerous Goods (IMDG)
General Awareness for HAZMAT Responders
Instructor Training: HAZMAT Transport Modules
Transportation of Hazardous Materials

Highway

Drug Evaluation and Classification
Preliminary Drug Evaluation and Classification
Law Enforcement Public Information Workshop
Highway Safety Program Management
Instructor Training in DWI Detection and Standardized Field Sobriety
Drug Impairment Training for Educational Professionals
Management Review
Speed Measurement training
Lethal Weapon: Driving Under the Influence (DUI) Homicide
Emergency Medical Services (EMS) Data
Conducting Complete Traffic Stops
Mobilizing America to Buckle Up Children
National Standardized Child Passenger Safety (CPS) Training
Model Minimum Uniform Crash Criteria (MMUCC)
Moving Kids Safely
Prosecuting the Drugged Driver
Protecting Lives, Saving Futures
Older Driver Course

Transportation Safety Institute (Continued)

Highway (Continued)

NASS Update Training
Media Skills
NASS Researcher Basic Training IV
Data Analysis and Evaluation
Impaired Driving
Occupant Protection
Driving While Intoxicated (DWI) Detection and
Standardized Field Sobriety
Catch 'Em If You Can
Drugs That Impair Driving
Prosecution of Driving While Intoxicated
Instructor Development Training
Drug Evaluation and Classification Instructor
Prosecutor Faculty Development
Youth Alcohol Enforcement
Traffic Occupant Protection Strategies
Safe Communities
Community Bicycle Safety Course for Law
Enforcement
Emergency Medical Services (EMS) Public
Information, Education and Relations (PIER)
Managing Federal Finances and Tracking Grants
Crash Outcome Data Evaluation System (CODES)
Highway Safety Information System Leadership
Workshop (HSIS)
Highway Safety Project Management
Operation Kids

Motor Carrier

U. S. DOT Motor Carrier Safety Compliance
Course
Motor Carrier Safety Compliance Seminar (New
Entrant)

Motor Carrier Safety Compliance Hours of Service
Refresher Seminar

Transit

Instructor's Course in Bus Operator Training
Effectively Managing Transit Emergencies
Transit Industrial Safety Management
Threat Management and Emergency Response to
Bus Hijackings Seminar
Transit System Safety
Safety Evaluations of Alternative Fuels Facilities
and Equipment
Substance Abuse Management and Program
Compliance
Bus Collision Prevention and Investigation
Seminar
Intermediate Problems in Bus Collision
Investigation
Transit System Security: Design Review
Crime Prevention through Environmental Design
(CPTED)
Transit Bus System Safety
Alternative Fuel Cylinder Inspection
Threat Management and Emergency Response to
Rail Hijackings Seminar
Transit Rail Incident Investigation
Transit System Security
Fundamentals of Bus Collision Investigation
Transit Explosives Incident Management Seminar
Transit Rail System Safety

Transportation Technology Center

Federal Railroad Administration, Pueblo, Colorado

55500 DOT Road
Pueblo, CO 81001
Contact: TTCl Marketing Department
Telephone: +1-719-584-0750
Fax: 719-584-0711
General Information: tci_marketing@tci.aar.com

The Transportation Technology Center, Inc. (TTCl) is a world class facility offering a wide range of unique capabilities for research, development, testing, consulting, and training for railway-related technologies. The site, 21 miles northeast of Pueblo, Colorado, is owned by the U.S. Department of Transportation, and is operated and maintained by the Transportation Technology Center, Inc., under a care, custody, and control contract with the Federal Railroad Administration. A 52 square mile facility, TTCl has a vast array of specialized testing facilities and tracks. The site also enables testing of all types of freight and passenger rolling stock, vehicle and track components, and safety devices.

The economics of the world's developed countries have long relied on railroads. Developing countries are now on the same track. And there's a widespread resurgence of interest in passenger service, a need that plays directly to TTCl's strength. Our company's self-declared mission is to "accelerate the rate at which beneficial technologies are safely and efficiently utilized by the railway industry." TTCl does this by engaging in both the development and transfer of technology applicable to all phases of railroad and transit operations.

Areas of TTCl expertise include in rail and transit:

Transit System Services
Computer Modeling Products and Services
Vehicle Performance Monitoring Systems
Instrumentation and Data Collection, Analysis, and Reporting
Engineering Services
Transportation Security
Communications & Train Control
Freight Damage Prevention
Certification Testing Services

Railroad/Rail Transit Training

TTCl's staff of engineers and technicians is frequently retained to provide training services for customers. Some programs are provided regularly, while others are given on demand and customized to meet individual needs.

Selected TTCl training courses include:

Vehicle Dynamics
Derailment Analysis
Vehicle Characterization
Passenger Car Dynamics
Wheel-Rail Theory
Vehicle Suspension Systems
Dynamic Behavior of Tracks
Nondestructive Rail Flaw Analysis
Tank Car Nondestructive Testing
Bridges Evaluation for Heavy Axle Loads
Heavy Axle Loads
NUCARS® Modeling
Train Operation and Energy Simulator (TOES™)
/Simulation of Train Action to Reduce Cost of Operations (STARCO™) (Training is available to licensed users.)
Train Energy Model (TEM™)

Emergency Response Training Center

Prevention of hazardous materials accidents is an important part of TTCl's mission. TTCl offers key services for improving transportation safety for shippers, carriers, and the public in the areas of research, development, testing, training, and consulting.

The Emergency Response Training Center (ERTC), operated by TTCl, was established in 1985 to train transportation service industry employees, public emergency responders, chemical industry employees, government agencies, and emergency response contractors from all over the world. Since its inception, ERTC has trained more than 38,000 students worldwide.

Transportation Technology Center, Inc. (Continued)

ERTC (Continued)

ERTC offers hands-on training based on the Department of Homeland Security training guidelines, Occupational Safety and Health Administration's (OSHA) regulations 29 CFR 1910.120 (q) and the National Fire Protection Association (NFPA) standards.

TTCI's isolated and secure facility has specialized hazardous materials training props, which includes over 20 highway cargo tanks, 60 railcars, a locomotive, 4 full-scale simulated derailments, and a full-scale mockup of a chemical barge. A state-of-the-art computer learning center helps students use the latest in air dispersion modeling for predicting chemical dispersion and potential health effects.

ERTC instructors travel off site to deliver customized training or provide consulting services. ERTC regularly assists corporate training officers in designing a unique curriculum to meet corporate training objectives. A detailed description of ERTC services and course schedule may be found at <http://www.hazmattraining.com>

Regularly scheduled ERTC courses include:

Tank Car Specialist
Advanced Tank Car Specialist
Transportation Specialist Refresher
Highway Emergency Response Specialist
Hazardous Materials Technician
Hazmat Monitoring
Intermodal Specialist
Incident Commander
Weapons of Mass Destruction Technician

John A. Volpe National Transportation Systems Center

Research and Innovative Technology Administration, Cambridge, Massachusetts

55 Broadway, RTV-1
Kendall Square
Cambridge, MA 02142-1093
Contact: Volpe Center, Office of the Director
Phone: (617) 494-2491
Fax: (617) 494-3731
Email: Ellen.Bell@volpe.dot.gov

Overview of the Volpe Center

The U.S. Department of Transportation's John A. Volpe National Transportation Systems Center (Volpe Center), part of the newly created Research and Innovative Technology Administration (RITA), was established in 1970 to fulfill the need of the newly formed U.S. DOT for broad technical support. Since its inception, the Center's systems-level understanding of transportation technology, operations, and institutions, coupled with a wide range of analytical and engineering capabilities has been an invaluable resource to the Department and others. The Volpe Center's work includes a broad mix of projects that cut across traditional transportation modes and technical disciplines.

Operating under the guidance of the U.S. Secretary of Transportation and the RITA Administrator, the Volpe Center -- in step with the Department's national transportation objectives and priorities -- contributes to the public good through its work to improve the performance and effectiveness of the nation's transportation system. In the thirty five years since the Volpe Center was established, it has addressed major national transportation issues related to safety, congestion reduction (mobility), environmental stewardship, global connectivity and security, emergency response and preparedness.

By applying its unique combination of technical knowledge and expertise, the Volpe Center has lent critical support -- including training and education -- to its clients -- U.S. DOT, other Federal agencies, state, and local governments, international entities, industry, and academia -- to successfully carry out their missions. Today, the Volpe Center has evolved into an internationally recognized center of transportation expertise. Through research and development, engineering, and analysis, the Volpe Center helps decision-

makers define problems and pursue solutions. The Center has repeatedly responded rapidly to emerging needs within DOT, displaying its skill at deploying systems that work in complex environments. It is well respected as a forum for heightening the awareness of the broader transportation community on issues of national and global significance.

The Volpe Center differs from most Federal organizations in that it receives no direct appropriation from Congress. Instead, the Volpe Center is funded 100% through a fee-for-service structure in which all of our costs are covered by sponsored project work. A catalyst for innovation, the Volpe Center serves as a key source of critical insight necessary to realize transportation's promising future.

Training

The Volpe Center develops and delivers customized training on a broad spectrum of transportation issues for numerous clients. The Center has designed and implemented training programs to satisfy many different types of needs, including professional capacity building; systems use training, workforce skills training, awareness training, change management training, and mission critical training. The Center has also worked to evaluate the effectiveness of training programs on behalf of its clients.

The Volpe Center's diverse portfolio and recent accomplishments in supplying training programs to its clients include the following:

Professional Capacity Building: The Volpe Center is helping the U.S. Department of Transportation establish a strong leadership role in transportation workforce development through its capacity building programs which provide information, technical assistance, tools, and training to transportation professionals. Building on the success of two established Professional Capacity Building (PCB) programs in Intelligent Transportation Systems and Transportation Planning, the Volpe Center is helping the Federal Highway Administration build new programs in several key priority areas -- roadway safety, environmental stewardship, secu-

Volpe National Transportation Systems Center (Continued)

Training (Continued)

rity and emergency management and public private partnerships. The Center has been instrumental in establishing a council that brings together managers of capacity building programs from across the U.S. DOT to exchange information and best practices, identify opportunities for enhanced knowledge management, and better integrate training, technical assistance and information dissemination among programs.

Training Iraqi Railways Personnel: The Volpe Center was instrumental in supporting the Iraq Rehabilitation Management Organization (IRMO) by overall program management support for supplying key railroad maintenance and construction equipment for the Iraqi Railways system. This work included training the Iraqi Railways personnel on railroad construction equipment, contracting, manufacturing oversight, handling delivery logistics, and acceptance of the equipment.

Monitoring and Evaluating the Effectiveness of Training: For the Department of Homeland Security's Transportation Security Administration, the Volpe Center is responsible for monitoring, evaluating, analyzing, and reporting on the effectiveness, efficiency, and adequacy of training programs. TSA's Quality Assurance Branch manages a National Training Quality Assurance Program to ensure standardization of training delivery and that course offering and screener recertifications are achieving their intended objectives. The Volpe Center provided DHS/TSA with an analysis of the current state of the screener training Quality Assurance program.

Outreach and Training for the National Park Service: A broad set of Volpe Center efforts – technical assistance, outreach and training, strategic communications, financial analysis, planning reviews, and system evaluations have proven useful to the National Park Services (NPS) Transportation Management Program. The Volpe Center works with the NPS and other Federal land management agencies to advance transportation programs, and to design alternative transportation systems to address these challenges.

On-site Telecommunications Training: For the Federal Aviation Administration (FAA), the Volpe Center has traveled to all 77 FAA field sites for worked to conduct transition training for FAA staff around the country on new state of the art computers and telecommunications equipment installed as part of the modernization of the FAA's Traffic Flow Management Infrastructure.

User Training on National Data Repository: The Volpe Center also lends key support to the FAA's Telecommunications Information Management System (TIMS), which provides a single, central national data repository of FAA telecommunications ordering, funding and inventory information along with a consistent set of automated tools to support the telecommunications business process of the FAA. The Volpe Center is responsible for the design, development, operation, maintenance and user training of TIMS.

Safe Skies for Africa: On behalf of the Federal Aviation Administration (FAA), the Volpe Center participated in an International Civil Aviation Organization (ICAO) Communications, Navigation, and Surveillance/Air Traffic Management meeting in Abjua, Nigeria in support of the Department of Transportation's Safer Skies for Africa Initiative's. The Center provided a briefing on the significance of successful implementation of a Global Positioning System (GPS) Notice to Airmen (NOTAM) system to support flight planning and provide training of a GPS outage prediction tool developed by the Volpe Center.

Development of Transit Security Training: For the Federal Transit Administration, the Volpe Center has created guidelines for developing transit security procedures and programs and related training courses.

Nationwide Training for Federal Motor Carrier Safety Administration (FMCSA): The Volpe Center supported FMCSA requirements to prepare an annual plan to reduce truck related crashes and fatalities by developing a four-step planning process, piloting the process, developing the training and then conducted the training for all 50 FMCSA State Division Offices.

Volpe National Transportation Systems Center (Continued)

Training (Continued)

Hazmat Awareness Training for U.S. Postal Service (USPS): In support of the USPS Hazardous Materials and Aviation Security Programs, the Volpe Center has developed and conducted hazmat awareness training, prepared instructional materials and standard operating procedures, and had collected data and conducted needs assessments. Since 1999, the Volpe Center has supported the efforts of the USPS Aviation Mail Security Group (AVSEC) to keep the mail safe from potential impacts of hazmat.

Emergency Response Training for U.S. DOT Regional Personnel: Recently, the Volpe Center provided Emergency Response training to U.S. DOT regional staff. The training introduced the Regional Emergency Transportation program, history, applicability to the National Response Plan, roles and responsibilities, relationship to the Emergency Transportation Center (ETC) in

Atlanta, GA, the National Contract, deployment activities and responsibilities, as well as response, recovery and remediation activities related to the US DOT and its supporting Federal, state and local authorities.

Training Courses Conducted for Field Planners: In support of the Federal Highway Administration and the Federal Transit Administration, the Volpe Center conducted a training course for the agencies' field planners in Kansas City, Missouri, as part of a series of ten courses held in the U.S. DOT's regions. Federal legislation requires the Secretary to certify every three years that each metropolitan area is conducting transportation planning in a way that meets statutory requirements. The course assisted field planners to prepare for conducting Planning Oversight and Certifications in metropolitan areas over 200,000 population.