



**MARYLAND
TRANSPORTATION
TECHNOLOGY
TRANSFER CENTER**

Local Technical Assistance
Program (LTAP)
University of Maryland at
College Park

mdt2center.umd.edu

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Announcing the 4th Annual Build a Better Mousetrap Competition



Have you or one of your coworkers recently built an innovative gadget or developed an improved way to do a job?

If so, now is the time to show off a project your municipality is proud of in the 4th Annual Build a Better Mousetrap Competition.

The MDT2 Center is looking for projects that you, your employees, or crew designed and built. It can be anything from the development of tools, equipment modifications, and/or processes that increase safety, reduce cost, improve efficiency, and improve the quality of transportation.

To enter the competition, complete the [entry form](#) and return it by Friday, May 19, 2017. Want to know more about our Build a Better Mousetrap Competition, visit our [website](#) where we have listed our previous winners.

Entries will be judged by the MD T2 Center on cost savings/benefits to the community, ingenuity, transferability to others and effectiveness. The winning entry will be submitted into a Regional Mousetrap competition (Delaware, Maryland, Pennsylvania, Virginia and West Virginia) as well as a National Mousetrap competition to compete for prizes and, of course, bragging rights.

If you have questions, please feel free to email them to ckeane@umd.edu, or call Carly Keane at 240.304.9627.

Data-Driven Safety Analysis: Performing A Health Check-Up on Your Roadways

By: Jerry Roche, FHWA Office of Safety and John McFadden, FHWA Resource Center



Data-Driven Safety Analysis made great strides under Every Day Counts 3 (EDC-3) initiative, with more than 40 States applying DDSA on one or more projects in the areas of planning, alternatives analysis, design, and operations. Interest in DDSA has remained so high, that it was selected as one of the innovations to continue under EDC-4. Now that States have tried it, many State DOTs and local agencies have set their sights on integrating DDSA into their policies and procedures throughout their respective project development processes.

One of the areas in which we've seen progress in applying DDSA is planning. Predictive and systemic analysis tools can be applied early in the project development process to help identify which roadways aren't performing as they should, determine the scope and need of potential projects, and prioritize them.

For example, the Ohio Department of Transportation (ODOT) is incorporating data-driven safety analysis into its project development developing certain diseases and proactively work to minimize that risk before major issues develop later in life.

Similarly, we can perform "health assessments" on our roadway systems using these steps:

1. Identify target crash types (e.g. severe roadway departure crashes).
2. Identify focus facility types (e.g. two-lane rural roads with curves).
3. Identify and evaluate risk factors (e.g. curve radius, traffic volume, intersection within curve).

We can then proactively treat locations that surpass the threshold for crash risk with low-cost countermeasures.

For more information on the systemic approach, visit <http://safety.fhwa.dot.gov/systemic/>. For DDSA related training and technical assistance please contact Jerry Roche at jerry.roche@dot.gov or John McFadden at john.mcfadden@dot.gov.

**This article was reprinted from Safety Compass, Winter 2017: Volume 11 Issue 1.
A publication of the Federal Highway Administration Office of Safety.**

For more information about Safety Compass, visit: <https://safety.fhwa.dot.gov/newsletter/safetycompass/>

Interested in performing your own roadway health check?

Crash and Safety Data Analysis (this is a two-day course)

Location: MD T2 Center at College Park, Maryland

Date: August 23-24, 2017

Time: Day 1 - 8:30am - 4:00pm, Day 2 - 8:30am - 12:30pm

See the full course
description on page 7

The following courses are currently scheduled and we are still adding to the list! For more information or to schedule a class, contact Janette Prince at 301.405.6535 or register online at www.mdt2center.umd.edu.

SIGNALIZED INTERSECTION DESIGN AND TIMING

Location: MD T2 Center at College Park, Maryland

Date: May 2, 2017

Time: 8:30am - 3:30pm

This course reviews the Highway Capacity Manual procedure for determining the capacity and level of service for signalized intersections. In the course we explore the impacts of cycle length, progressive timing, phasing, left turn treatments, NEMA movements, storage areas and queuing, approach volumes, blockages such as parking and buses, green times, and lost times on the operations of a signalized intersection. As part of the course in the afternoon the class goes to a field site and collects information at a selected signalized intersection. The field data is then used by the class to calculate the delay and level of service using the HCS software. Variations to the cycle length, timing, and phasing are explored to determine the optimize settings that minimize delay and improve the level of service. Engineers and planners who want a better understanding between the characteristics of signals and timing and levels of service and control delay.

Professional Development Hours: 6.0

Registration Fees: There is a \$110 registration fee for all participants.

TO SIGNALIZE OR NOT TO SIGNALIZE (SIGNAL WARRANT & INTERSECTION CONTROL ANALYSIS)

Location: MD T2 Center at College Park, Maryland

Date: May 3, 2017

Time: 8:30am - 4:00pm

This one-day course instructed by Dane Ismart will cover the eight MUTCD signal warrants:

Warrant 1: Eight-Hour Vehicle Volume

Warrant 2: Four-Hour Vehicle Volume

Warrant 3: Peak Hour

Warrant 4: Pedestrian Volume

Warrant 5: School Crossing

Warrant 6: Coordinated Signal System

Warrant 7: Crash Experience

Warrant 8: Roadway Network

The course will also cover warrants for four-way stops as well as alternatives to traffic control signals. A detailed discussion of the advantages and disadvantages both in the terms of capacity and safety of various types of traffic controls will be presented. The basis for both the installation and the removal of traffic control devices will be covered.

As part of the course, workshop problems will be given to the class participants. The class will be provided intersection field data and will determine if signals are warranted for the sample intersections. After completing the workshops, MUTCD signal warrant analysis software will be demonstrated and the workshop problems will be evaluated based on microcomputer analysis. This course is designed for traffic

engineers and transportation planners involved in the design and planning of corridors and intersections.

Professional Development Hours: 6.0.

Registration Fees: \$110 for all participants.

SEAL COATES, OIL AND CHIP, SLURRY SEALS, MICROSURFACING AND OTHER METHODS OF PRESERVING YOUR ASPHALT PAVEMENTS

Location: MD T2 Center at College Park, Maryland

Date: May 9, 2017

Time: 8:30am - 3:30pm

This course is the first step in making your asphalt pavements last longer at lower costs. The course instructed by Ed Stellfox covers preventive maintenance treatments such as chip seals, slurry seals, and micro-surfacing and discusses when and where each technique could be effective. It presents application methods, including preparation, materials, equipment, operations and safety, along with practical tips on how to avoid trouble. This course is open to municipal officials, road commissioners, supervisors, and superintendents; public works and maintenance personnel; equipment operators; and city or town managers.

Professional Development Hours: 6.0.

Registration Fees: There is a \$99 registration fee charged for all participants.

ASPHALT RECYCLING

Location: MD T2 Center at College Park, Maryland

Date: May 10, 2017

Time: 8:30am - 12:30pm

This course discusses the advantages of asphalt recycling as part of your road maintenance program. It covers techniques for recycling asphalt pavement, including surface recycling, hot mix recycling (both in plant and on-site), and cold mix recycling. The course instructed by Ed Stellfox emphasizes cold mix recycling, full depth reclamation, reviewing materials, equipment and operations. It also presents recent examples of asphalt recycling projects in several states. The following topics will be discussed: advantages; review of techniques -materials, equipment, and operations for surface recycling, hot-mix recycling, cold-mix recycling, and full depth reclamation.

Professional Development Hours: 4.0.

Registration Fees: \$69 for all participants.

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Our Currently Scheduled Courses

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TRAFFIC SIGNS

Location: MD T2 Center at College Park, Maryland

Date: May 17, 2017

Time: 8:30am - 12:30pm

This half-day course instructed by Ed Stellfox will cover the regulations and guidelines for traffic signs including; regulatory signs, warning signs, and guide signs. A review of the Manual on Uniform Traffic Control Devices (MUTCD) will also be covered. An in depth discussion of sign examples, installation and maintenance, as well as sign management will be covered.

Professional Development Hours: 4.0.

Registration Fees: \$69 for all participants.

FLAGGER CERTIFICATION

Location: MD T2 Center at College Park, Maryland

Date: May 26, 2017

Time: 8:30am - 12:30pm

The safety of workers, motorists and pedestrians is dependent upon the flaggers' performance. Since the flagger position involves safety, proper training is vital; flaggers are expected to pass a test to prove their proficiency and competence level. A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC.

The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam). The course is intended for anyone whose actions affect safety of contemporary traffic control work zones, including traffic managers, traffic technicians, inspectors and designers.

Professional Development Hours: 4.0.

Registration Fees: There is a \$100 registration fee charged for all participants.

WORK ZONE DESIGN

Location: MD T2 Center at College Park, Maryland

Date: June 5-6, 2017

Time: 8:30am - 4:00pm

The course instructed by Juan M. Morales, P.E. will give participants knowledge of the entire temporary traffic control (TTC) process: planning, design, review, installation, maintenance, and inspection of temporary traffic control for highway work zones. Issues regarding planning, design, review, and operation of temporary traffic control are covered, including pedestrian accessibility, worker safety, human factors, and legal aspects. The material is based on Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) and are modified to address Maryland State Highway Administration (SHA) TTC standards and guidelines. Topics Covered:

- Introduction to TTTC
- TTC Standards and Guidelines (MUTCD and MD SHA)
- Fundamental Principles of Traffic Control

- Human Factors
- Component Part of the TTC Zones
- Traffic Control Devices
- The Typical Project
- Planning
- Design
- Installation
- Inspection
- Enhancements and Modifications
- Constructability Reviews
- Removal
- Traffic Control Plan Strategies
- MD SHA Standards, Guidelines and Practices
- Legal Aspects of TTC
- Workshops

The course is aimed at individuals who are responsible for the design, review, or modification of temporary traffic control for work zones adjacent to and within roads and highways. The course will also be of interest to those responsible for installation, operation, and inspection.

Professional Development Hours: 12.0.

Registration Fees: The following registration fees will be charged for this course, \$199 for Maryland Local Government and \$225 for all other registrants.

ROAD SAFETY 365: A SAFETY WORKSHOP FOR LOCAL GOVERNMENTS

Location: MD T2 Center at College Park, Maryland

Date: June 7, 2017

Time: 8:30am - 3:30pm

This course instructed by Juan M. Morales, P.E. is designed to provide local and rural agencies with practical and effective ways to mainstream safety solutions into their day-to-day activities and project development process. This one-day workshop focuses on processes for incorporating safety into all aspects of local and rural projects, and on making safety a priority through inclusion in the traditional decision-making process - 365 days a year. The course stresses the importance of road safety, and illustrates how it can be integrated into rural/local transportation project development at all stages: planning, design, construction, implementation, operations, and maintenance. Through practical exercises and facilitator-led discussions, the emphasis is on operations and maintenance to reflect the predominant, day-to-day responsibilities of rural/local transportation agencies. The benefits and potential cost savings of safety initiatives are shown using examples from rural/local agencies. The workshop audience ranges from decision-makers to road crews. It is aimed primarily at local and rural road and public works supervisors. Others who would benefit include: elected officials, public safety advocates, State DOT personnel, law enforcement, consultants, regional and rural development organizations, municipal associations.

Professional Development Hours: 6.0.

Registration Fees: There is a \$100 registration fee charged for all participants.

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ROAD SURFACE MANAGEMENT

Location: MD T2 Center at College Park, Maryland

Date: June 8, 2017

Time: 8:30am - 3:30pm

This course instructed by Ed Stellfox provides participants with the basic concepts of road surface management including inventory, distress identification, condition survey, strategies, programs, budgets, and field surveys. A Road Surface Management Systems software demonstration will also be conducted during this course.

Professional Development Hours: 6.0.

Registration Fees: \$99 for all participants.

ROAD DIET WORKSHOP

Location: MD T2 Center at College Park, Maryland

Date: June 13, 2017

Time: 8:30am - 4:00pm

The course instructed by Dane Ismart covers the design, safety, and operations of road diets. Road diets, although they come in many different designs, reduce the number of through lanes and allocate excess roadway width to parking, bicycle lanes, freight movements, and transit operations. The classical design reduces a 4-lane undivided highway to three lanes consisting of one through lane in each direction and a continuous two lane left turn in the middle. A road diet may also reduce the widths of lanes as well when appropriate. The advantages, disadvantages, various road diet configurations, guidance, and criteria for determining the feasibility of implementing a road diet are discussed. Safety and operational considerations as well as examples of actual case studies are part of the course. The after results of example corridors that are renovated and redesigned as road diets are presented. The course is concluded with the class broken up to teams that work on a corridor problem and present their solution and road diet design.

Audience: This Workshop will be of interest to Engineers, Transportation Planners, Pedestrian and Bicycle Coordinators, Safe Routes to School Coordinators, Local Public Agency Coordinators, and Transportation Alternatives Program Managers.

Professional Development Hours: 6.0.

Registration Fees: \$110 for all participants.

CONSTRUCTION MATHEMATICS

Location: MD T2 Center at College Park, Maryland

Date: June 21, 2017

Time: 8:30am - 3:30pm

Construction inspectors may need to brush up on math skills specifically related to construction inspection, especially basic geometry, fractions, area, volume and conversions. The class lead by Ed Stellfox is a good refresher, and excellent preparation for the construction inspection class. The course was designed for road workers, foremen, superintendants, construction inspectors and supervisors in need of a refresher, especially in preparation for the Construction Inspections class. Depending on the

interest of the participants, the course may cover: whole number and fractions, decimals (for measurement and payment), mixed operation fractions and decimals, formula evaluation, techniques of algebra, ration and proportion, percentage, hints for problem solving, useful formulas, square and square roots, conversion, and transportation construction examples. *Participants should bring a calculator, scale and straight edge; notebooks will be provided.

Professional Development Hours: 6.0.

Registration Fees: \$99 for all participants.

TECHNIQUES FOR REDUCING CONSTRUCTION AND MAINTENANCE COSTS

Location: MD T2 Center at College Park, Maryland

Date: July 12, 2017

Time: 8:30am - 3:30pm

Counties and municipalities bear a considerable financial burden with respect to the construction and maintenance of roadways. Inflation, increasing cost of labor, materials and fuel have risen steeply in the past few years. At the same time, municipal budgets have not kept pace. It is essential to conserve resources, find energy efficient and low maintenance materials and to use more efficient techniques. This workshop instructed by Ed Stellfox, will conclude with groups of participants developing a cost control plan for a project.

Professional Development Hours: 6.0.

Registration Fees: \$99 for all registrants.

INTRODUCTION TO GEOSYNTHETICS

Location: MD T2 Center at College Park, Maryland

Date: July 26, 2017

Time: 8:30am - 3:30pm

This course is an introduction to geosynthetics, beginning with a discussion of geosynthetics, what they are, how they are made and how they can be used in a road maintenance program. The course then looks at other geosynthetics and their road system uses, including geogrids, geocells and geoweb, presenting new materials with new applications. Designed for municipal officials, road commissioners, supervisors, and superintendents; public works and maintenance personnel; equipment operators; and city or town managers. This course instructed by Ed Stellfox, will cover the following topics: history; materials (geotextile fabrics, geogrids, geocells and geoweb); uses and applications of drainage, erosion control, reinforcement, separation, and reflective crack control.

Professional Development Hours: 6.0.

Registration Fees: \$99 for all participants.

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Our Currently Scheduled Courses

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BLUEPRINT READING FOR HIGHWAY WORKERS

Location: MD T2 Center at College Park, Maryland

Date: August 3, 2017

Time: 8:30am - 3:30pm

Today's highway workers use a variety of blueprints and drawings to guide them in accurately performing the construction and maintenance of roadways and related components. Upon successful completion of this course instructed by Glynn Stoffel, the student will be able to read and interpret the drawings included in a set of highway plans. At the conclusion of the course, the student will be able to:

- Recognize and define the various lines and symbols used in plan construction.
- Describe and discuss the characteristics of plans, plats, profiles, views, details and other drawings found in a set of working plans.
- Demonstrate the ability to use engineer's and architect's scales.
- Describe how to effectively use plans in the field.
- Obtain a score of at least 70% on the review test.

Professional Development Hours: 7.0.

Registration Fees: The following registration fees will be charged for this course, \$110 for Maryland local government participants, and \$125 for all other participants.

GRAVEL ROAD MAINTENANCE

Location: MD T2 Center at College Park, Maryland

Date: August 9, 2017

Time: 8:30am - 3:30pm

This course instructed by Ed Stellfox addresses basic maintenance techniques for unpaved and gravel roads. Topics include road materials, blading or dragging, reshaping or regrading for proper crown, regravelling, stabilization or full-depth reclamation, and dust control, with an introduction to road management techniques.

Professional Development Hours: 6.0

Registration Fees: \$99 for all participants.

SCHOOL CROSSING DESIGN & SAFETY ANALYSIS

Location: MD T2 Center at College Park, Maryland

Date: August 22, 2017

Time: 8:30am - 4:00pm

The School Crossing Design Course instructed by Dane Ismart will cover the recommended guidelines for school crossings. Various issues such as determining the school area boundaries, signing and markings for school crossing areas, and design criteria will be covered. Requirements and guidelines as covered by the Maryland MUTCD will be reviewed as part of the class. How to select treatments such as potential signalization, crossing guards, pedestrian cross walks, coverage, school speed zones and speed monitoring, location of traffic control devices, and warrants will be presented to the class. The Safe Routes to School

program will be reviewed. Sources for information and school crossing information will be given to the class as well as innovative school treatments from other states. A class exercise will be conducted by the participants to demonstrate the application of the procedures and design principles for implementing school crossing treatments.

Audience: Local and state planners and designers, school officials and associations involved in school transportation, and transportation consultants.

Professional Development Hours: 6.0

Registration Fees: \$110 for Maryland local government participants, \$125 for all other participants.

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The MDT2 Center along with four other LTAP Centers in the Mid-Atlantic Region are hosting the 2017 National Conference July 17 - 20 in Portsmouth, VA. Want to join us? We are looking for vendors and sponsors!

[Click here for the 2017 NLTAPA Conference Vendor & Sponsor Opportunities](#)

The National Local Technical Assistance Program Association has opportunities for businesses and agencies to gain recognition with LTAP/TTAP staff from 58 centers representing all States, Puerto Rico, and the Tribal Nations. We promote best practices to local and tribal transportation agencies and seek out new technologies, as well as training materials and techniques that will be of interest to our audience.

CRASH AND SAFETY DATA ANALYSIS

Location: MD T2 Center at College Park, Maryland

Date: August 23-24, 2017

Time: Day 1 - 8:30am - 4:00pm, Day 2 - 8:30am - 12:30pm

This day and a half course instructed by Dane Ismart will cover the following:

- Crash Data and Computation of Crash Frequency - Using several years data, establish crash rates to compare with similar locations, while explaining hazard indices, conflict analysis, and warrant analysis.
- Condition Diagramming and Collision Types - Review the process and the elements contained in a condition diagram and use police reports to identify the type, times, conditions or crashes on a collision diagram.
- Speed Analysis and Traffic Calming - Methods for conducting speed studies, including data collections, sample size, computation of mean, 85th percentile and pace speeds, and controlling speed with traffic calming techniques.
- Sight Distance Analysis - Methods for determining minimum stop and sight distances will be covered, to check whether sight distances for exercise area are adequate, or should be made improved to be adequate.
- Pedestrian Safety - Design features such as signing, marking, timing for intersection crossings, crosswalk widths, minimum sidewalk standards including radius, ramps, and specialized HAWK pedestrian crossing.
- School Crossing Considerations - Review school crossing mitigation measures including school guard criteria, school signs and markings, speed zones, gap analysis, and school crossing signalization.
- Marking and Signing Considerations - Review marking designs and requirements, including sign design and location requirements as well as both longitudinal and traverse markings specifications according to the MUTCD.
- Safety Design Issues and Mitigation - Introduce the concept of Improving safety through improved access design and applying them to identify mitigation measures for improving real and potential safety problems.
- Presentation - Following provided guidelines, each team will present their findings as part of a television interview.

This course is intended for Traffic Engineers, planners, traffic analysts, traffic signal technicians and local officials involved in the planning or design of transportation facilities.

Professional Development Hours: 10.0

Registration Fees: \$115 for Maryland local government participants, \$130 for all other participants.

DESIGNING PEDESTRIAN FACILITIES FOR ACCESSIBILITY

Location: MD T2 Center at College Park, Maryland

Date: August 29-30, 2017

Time: 8:30am - 3:30pm

Upon completion of this course instructed by Juan M. Morales, P.E., the participant will be able to identify applicable laws, regulations, guidelines, and standards pertaining to accessibility for persons with disabilities. Know the requirements for ensuring accessibility in existing facilities vs. work in new construction and alterations. Identify some of the challenges in the Public Right-of-Way (PROW) faced by persons with disabilities. Review design elements necessary for achieving accessibility in the PROW, including work zones. Identify best practices. There will be (weather permitting) a field visit to a nearby intersection to assess its design and accessibility. Topics covered in the course include:

- Laws, Regulations, and Pedestrian Characteristics
- Pedestrian Access Routes
- Curb Ramps and Other Transitions
- Detectable Warning Surfaces
- Pedestrian Crossings
- Accessible Pedestrian Signals
- Pedestrian Facilities and Temporary Pedestrian (TPAR) in Work Zones
- Field Visit

Professional Development Hours: 12.0.

Registration Fees: The following registration fees will be charged for this course, \$199 for Maryland local government participants, and \$225 for all other participants.

FLAGGER CERTIFICATION

Location: MD T2 Center at College Park, Maryland

Date: August 31, 2017

Time: 8:30am - 12:30pm

The safety of workers, motorists and pedestrians is dependent upon the flaggers' performance. Since the flagger position involves safety, proper training is vital; flaggers are expected to pass a test to prove their proficiency and competence level. A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC. The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam). The course is intended for anyone whose actions affect safety of contemporary traffic control work zones, including traffic managers, traffic technicians, inspectors and designers.

Professional Development Hours: 4.0.

Registration Fees: There is a \$100 registration fee charged for all participants.

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Our Currently Scheduled Courses

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PROJECT DEVELOPMENT OF FEDERAL-AID PROJECTS

Location: MD T2 Center at College Park, Maryland

Date: September 12-13, 2017

Time: 8:30am - 4:00pm

State DOTs and local agencies when developing projects involving federal-aid must follow a prescribed set of rules, regulations, and procedures. This course will cover the various steps necessary to meet the federal requirements. The course will be initiated with a discussion of categorical funds and what activities they are eligible for. A detailed presentation will be made on how the federal highway financial system works and the process that determines the amount of federal funds that will be available to the States and MPOs. Presentations will then be made on federal rules to meet planning and environmental requirements, right-of-way rules and requirements (the Uniform Act), design standards, the bridge inspection program requirements. Federal contract requirements will also be presented that discuss a broad of issues such as use of proprietary materials, contract bidding rules, contract provisions, etc. Class exercises will be used to demonstrate typical real life issues involving the development of federal-aid projects.

Who Should Attend: State DOT and local staff and officials involved in the development of transportation projects using federal-aid funds.

Professional Development Hours: 12.0

Registration Fees: \$199 MD Local Government, \$210 all other registrants.

TRAFFIC ENGINEERING FUNDAMENTALS

Location: MD T2 Center at College Park, Maryland

Date: October 2-5, 2017

Time: 8:30am - 4:15pm

This course instructed by Dane Ismart and Juan M. Morales, P.E. condenses what was the five-day Traffic Engineering Short Course into a new four-day course.

Agenda Day One:

8:30AM Introduction

9:00AM Traffic Engineering Terms and Design Year Traffic

10:00AM Site Impact Analysis

1:15PM Safety Principles and Crash Principles

2:45PM Principles of Access Management

4:15PM Adjourn

Agenda Day Two:

8:30AM Intersection Analysis and Geometrics

10:15AM Signal Timing

1:15PM Arterial and Freeway Analysis

3:00PM MUTCD

4:15PM Adjourn

Agenda Day Three:

8:30AM Roundabout Basics

9:45AM ITS Overview

11:00AM Traffic Calming

1:30PM Pedestrian Safety

3:00PM ADA Accessibility

4:15PM Adjourn

Agenda Day Four:

8:30AM Temporary Traffic Control Standards and Guidelines

9:45AM Component Part of a TTC Zone

11:00AM Traffic Control Devices

1:30PM Traffic Control Devices, continued

3:00PM Work Zone Impact Analysis

4:15PM Adjourn

Audience: This course is geared towards anyone with an engineering background and/or traffic engineering responsibilities in a related field. Also junior level traffic engineers, transportation planners, highway designers and city/county engineers.

Professional Development Hours: 24.0.

Registration Fees: \$399 MD local government and \$420 all other registrants

WINTER MAINTENANCE

Location: MD T2 Center at College Park, Maryland

Date: October 25, 2017

Time: 8:30am - 3:30pm

This course covers all aspects of winter operations- planning and organizing, methods of snow and ice control, salt usage, and winter equipment maintenance. Instructed by Ed Stellfox this lesson will include usage of snow maps, formal snow plans, snow plow and salt spreader operation. This course is intended for municipal officials, road commissioners, supervisors, superintendents, public works and maintenance personnel, equipment operators, and city or town managers.

Professional Development Hours: 6.0.

Registration Fees: \$99 for all participants.



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DESIGNING SAFER ROADS FOR PEDESTRIANS AND VULNERABLE ROAD USERS

Location: MD T2 Center at College Park, Maryland
Date: November 7-8, 2017
Time: 8:30am - 3:30pm

Vulnerable road users (VRU) are susceptible to traffic injuries and fatalities, perhaps more so than drivers. Yet we design highways for the mobility of cars sometimes neglecting the needs of the most vulnerable, such as pedestrians, bicyclists, motorcyclists, transit users and others. This course instructed by Juan M. Morales, P.E. will teach participants how to diagnose pedestrian (and other VRU) safety deficiencies and select the appropriate countermeasures to make conditions safer for all users including an overview of the American with Disabilities Act (ADA) accessibility requirements. Engineering countermeasures will be emphasized but education and enforcement countermeasures will also be covered. Upon Completion of the Course, Participants Should be Able to: Define vulnerable road users, Describe VRU needs, Diagnose crash causes and select proper countermeasures, Identify safety-related geometric design elements, and Discuss VRU safety issues and how to address them.

Professional Development Hours: 12.0.

Registration Fees: The following registration fees will be charged for this course, \$199 MD Local Government and \$210 All Other Registrants.

FLAGGER CERTIFICATION

Location: MD T2 Center at College Park, Maryland
Date: November 9, 2017
Time: 8:30am - 12:30pm

The safety of workers, motorists and pedestrians is dependent upon the flaggers' performance. Since the flagger position involves safety, proper training is vital; flaggers are expected to pass a test to prove their proficiency and competence level. A MD SHA-approved ATSSA (American Traffic Safety Services Association) flagger card will be issued upon satisfactory completion of this course. This will be valid for 4 years and is acceptable in several states, including MD, VA and DC. The class instructed by Juan M. Morales, P.E. is presented in PowerPoint© and will include a 25-question multiple choice exam and a flagger demonstration (dexterity test). Students will receive their ATSSA Flagger Certification card the day of the course (upon passing the exam). The course is intended for anyone whose actions affect safety of contemporary traffic control work zones, including traffic managers, traffic technicians, inspectors and designers.

Professional Development Hours: 4.0.

Registration Fees: There is a \$100 registration fee charged for all participants.

National Roadway Safety Awards

The National Roadway Safety Awards is a biennial competition sponsored by the Federal Highway Administration (FHWA) and the Roadway Safety Foundation (RSF) to recognize roadway safety achievements that move the United States towards zero deaths and serious injuries on the nation's roadways. The competition acknowledges successful engineering solutions that agencies have integrated into their roadway safety programs.

[APPLICATIONS ARE DUE ON JUNE 9, 2017](#)

Awards are given in two categories: Infrastructure and Operational Improvements; and Program Planning, Development, and Evaluation. Selected projects are included in a noteworthy practices guide so they can be replicated nationwide.

FHWA and RSF stress the importance of strategic, data-driven approaches to improving highway safety. Applicants are encouraged to nominate projects or programs that exemplify innovative and effective safety activities and maximize the cost effectiveness of Federal, State, local, and/or private sector funds.



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Allison Hardt Maryland State Highway
Administration

Paul Kahl Allegany County,
Department of Public Works

Stephen Kline Town of Bel Air,
Department of Public Works

Alex Moysenko City of Hagerstown,
Department of Public Works

Dan Sanayi Montgomery County, Traffic
Engineering & Operations
Section

Gregory Slater Maryland State Highway
Administrator

Cedric Ward Maryland State Highway
Administration, Office of
Traffic & Safety

Lisa Wright Baltimore County, Department
of Public Works

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