



**MARYLAND
TRANSPORTATION
TECHNOLOGY
TRANSFER CENTER**

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

mdt2center.umd.edu

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Event Update!

Roadway Management Conference - Virtual Format

October 26 & 27, 2020 | 8:00am to noon

The RMC planning committee recognizes that many of our local and state roadway agencies are facing travel restrictions and tightening budgets as a result of the COVID-19 virus. With this in mind, the 2020 RMC will be held in a virtual format, on a smaller scale, instead of the on-site conference originally planned to be held in Charlottesville, VA. This event is also being offered free-of-charge. However, pre-registration is required. The RMC Planning Committee also asks that if you register but are unable to attend, please email and let us know! If we have a wait-list, this will allow us to accommodate other attendees, and also, it's just the professional thing to do.

A few of the topics on the agenda include: Fundamentals of Pavement Preservation, Quality Construction Practices of Micro-Surfacing and Chip Seals, Using Drones, and Winter Maintenance. Please visit the conference website for more information. This is a wonderful opportunity for you or your staff to attend the RMC! It doesn't get much better than relevant topics for road and street departments, offered free-of-charge, no out-of-state travel, and the opportunity to interact with your peers from other states! So, come check out the virtual RMC!



This breakout session started with a fun team challenge.



General sessions are an important part of the RMC.

Target Audience

Practitioners who manage, design, construct, and maintain state, county, and municipal roads and streets. The RMC is designed to help these practitioners prepare for and successfully address public works transportation challenges using proven and innovative methods.

2020 RMC Hosted by

Delaware T2/LTAP Center
Maryland T2/LTAP Center
Pennsylvania LTAP
UVA Transportation Training Academy (VA LTAP)
West Virginia LTAP

Visit the Conference website for more information.
<https://roadwaymanagementc.wixsite.com/home>

Professional Development Hours

Are you a Professional Engineer? Need help obtaining professional development hours (PDHs)? All of our courses offer PDHs. Check out our currently scheduled courses in the following pages. Below is the continuing education requirements for professional engineers, this information and more can be found at:

<http://www.dlrr.state.md.us/license/pe/peeduc.shtml>

Requirements

- A. A licensee shall complete at least 24 PDH units during each reporting period with a:
 - (1) Minimum of 18 PDH units in Category A programs, including a minimum of 1 PDH unit in content areas related to the standards of practice or care, laws and regulations applicable to the practice of engineering in Maryland, or professional engineering ethics; and
 - (2) Maximum of 6 PDH units in Category B programs.
- B. A maximum of 12 PDH units earned in excess of 24 PDH units that are required for a license renewal during the licensing term can be carried forward to apply as credit toward the next individual licensing term.

Category A topics focus on technical, research, analytical or design aspects of engineering; laws and regulations related to the practice of engineering in Maryland; engineering-related computer hardware or software; standards of practice or care; professional engineering ethics; project management, risk assessment and management, or emergency and disaster management or similar topics intended to maintain and enhance the knowledge and skills related to the practice of engineering.

Category B topics relate to business or government administration or the development of traits, skills or behavioral patterns geared towards improved communications skills, oral and written skills, personal management skills or other similar programs which contain a clear purpose of improving a licensee's methods of practice or operations or advancing professionally related skills and practices as applicable to the practice of engineering.

Licensees renewing for the first time after receiving their initial license are exempt.

Our Currently Scheduled Courses

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

GRAVEL ROAD MAINTENANCE

Location: Virtual Classroom

Date: August 20, 2020

Time: 8:30am - 3:00pm

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: \$50 for all participants.

with new applications. 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: \$50 for all participants.

BASIC DRAINAGE

Location: Virtual Classroom

Date: August 27, 2020

Time: 8:30am - 3:00pm

This course instructed by Ed Stellfox emphasizes the importance of good drainage with discussions of water and its effects on roads, problems caused by improper drainage, and ways to handle these problems. It covers types of drainage facilities, ranging from ditches, culverts, subdrains, inlets and end structures. Their uses, materials, installation and maintenance as well as erosion control are addressed. It also introduces geosynthetic

INTRODUCTION TO GEOSYNTHETICS

Location: Virtual Classroom

Date: August 27, 2020

Time: 8:30am - 3:00pm

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

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drainage applications. The following topics will be covered: importance of drainage, characteristics of water, system maintenance, drainage principles, surface and subsurface drainage, ditches, driveways, drainage culverts – materials and placement, headwalls, endwalls and inlets, erosion control, and geosynthetics in drainage.

Professional Development Hours: 6.0.

Registration Fees: \$50 for all participants.

DESIGNING SAFER ROADS FOR PEDESTRIANS AND BICYCLISTS

Location: Virtual Classroom

Date: September 15, 2020

Time: 8:30am - 3:00pm

Pedestrians and bicyclists are susceptible to traffic injuries and fatalities, perhaps more so than drivers. Yet we design highways for the mobility of motorized traffic perhaps neglecting the needs of the most vulnerable, such as pedestrians and bicyclists. This course, instructed by Juan M. Morales, P.E., will teach participants how to diagnose pedestrian and bicyclist safety deficiencies and select the appropriate countermeasures to make conditions safer for all users. The course includes an overview of the American with Disabilities Act (ADA) accessibility requirements and a field trip where students will be exposed to various design elements. Engineering countermeasures will be emphasized but education and enforcement countermeasures will also be covered. Upon Completion of the course, participants will be able to: understand pedestrian and bicyclist traffic; describe their needs; diagnose crash causes; select proper countermeasures; identify safety-related geometric design elements (including roundabouts and bicycle lanes), and describe disable pedestrian considerations as per the American with Disabilities Act (ADA).

Audience: Engineer, Safety and Roadway Designers as well as individuals with Traffic/Transportation interests.

Professional Development Hours: 6.0

Registration Fees: \$50 for all participants.

INTRODUCTION TO TEMPORARY TRAFFIC CONTROL

Location: Virtual Classroom

Date: September 16, 2020

Time: 8:30am - 3:00pm

An introductory course to temporary traffic control (TTC) in highway work zones. This one-day course instructed by Juan M. Morales, P.E. is designed to give participants a complete overview of TTC in work zones, including applicable standards, guidelines, traffic control devices, component parts and their requirements, installation/removal considerations, and pedestrian accessibility. This course will prepare participants to take the Maryland SHA Traffic Manager's course. The instructor will briefly cover the use of temporary portable rumble strips in work zone areas. The course is intended for anyone whose actions affect safety on temporary traffic control work

zones, including traffic managers, traffic technicians, inspectors and designers.

Professional Development Hours: 6.0

Registration Fees: \$50 for all participants.

FLAGGER CERTIFICATION

Location: Virtual Classroom

Date: September 17, 2020

Time: 8:30am - 12:30pm

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).

Professional Development Hours: 4.0.

Registration Fees: \$50 for all participants.

ASPHALT ROADS COMMON MAINTENANCE PROBLEMS

Location: Virtual Classroom

Date: October 6, 2020

Time: 8:30am - 12:30pm

Municipal employees with road maintenance responsibilities should understand the causes of common maintenance problems on asphalt roads and be familiar with proper repair materials and methods. This course instructed by Ed Stellfox discusses causes and repair procedures for common problems such as cracking, potholes, rutting, corrugations, etc. The procedures cover materials, equipment, and techniques for lasting repairs. Also included, a brief discussion of surface treatment.

Professional Development Hours: 4.0.

Registration Fees: \$35 for all participants.

TRAFFIC SIGNS

Location: Virtual Classroom

Date: October 13, 2020

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: \$35 for all participants.

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Our Currently Scheduled Courses

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WINTER MAINTENANCE

Location: Virtual Classroom

Date: October 20, 2020

Time: 8:30am - 3:00pm

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: \$50 for all participants.

ASPHALT RESURFACING

Location: Virtual Classroom

Date: November 10, 2020

Time: 8:30am - 12:30pm

This course instructed by Ed Stellfox reviews the various asphalt mixes, their components and their uses. Asphalt resurfacing procedures are covered, including preparation, material, equipment, operation and safety. Special emphasis is placed on proper rolling and compaction of the asphalt overlay. Superpave mix design is discussed as well. Municipal officials, road commissioners, supervisors, and superintendents; public works and maintenance personnel; equipment operators; and city or town managers are encouraged to attend.

Professional Development Hours: 4.0.

Registration Fees: \$35 for all participants.

PREVENTIVE PAVEMENT MAINTENANCE

(Learn about seal coats, slurry seals, and microsurfacing)

Location: Virtual Classroom

Date: November 19, 2020

Time: 8:30am - 3:00pm

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: \$50 for all participants.

ASPHALT RECYCLING

Location: Virtual Classroom

Date: December 3, 2020

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: \$35 for all participants.

ROAD SURFACE MANAGEMENT

Location: Virtual Classroom

Date: December 8, 2020

Time: 8:30am - 3:00pm

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: \$50 for all participants.

COVID-19 and In-Person Training

As the COVID-19 pandemic has spread globally we are taking every precaution to make sure it doesn't reach our classroom. With safety in mind we have transitioned our in-person courses to online classes. LTAP centers around the nation are doing the same and are even allowing other states to offer the classes to our locals.

Want to see what we offer? [Join our mailing list!](#)

The Federal Highway Administration's Center for Local Aid Support (CLAS) announced the 2020 recipients of the Build a Better Mousetrap awards. Each year, FHWA recognizes and celebrates local public agencies who pioneer innovations that improve transportation performance. Previous winners have been recognized for a range of innovations that save time and money while improving safety and customer service to residents.

FHWA is recognizing this year's award recipients in the categories of Innovative Project; Smart Transformation; Bold Steps; and, Pioneer. The winners were showcased at the National Local Technical Assistance Program Association/ National Transportation Training Directors conference. The Innovative Project award winner, Niles, New York, was voted best overall innovation by conference attendees for developing a transferable solution to reduce future roadway maintenance.

Congratulations to all the recipients for each category. Here is a summary:

Innovative Project Award (Project implementation of a new technology or design in construction that enhances quality, timeliness, cost effectiveness, safety, environmental benefit or efficiency)

Winner: Niles, New York

Innovation: "Beaver Pipe Cage"

Description: The Town of Niles Highway Department developed the Beaver Pipe Cage as an inexpensive and safe solution to eliminate a flooding problem caused by beavers.

Bold Steps Award (Embraces forward thinking in the development and implementation of an innovative practice that improves or streamlines transportation related processes.)

Winner: Arapahoe County, Colorado

Innovation: "Culvert Repair with Jaws of Life"

Description: The Arapahoe County Public Works and Development Department uses the innovative "Jaws of Life" tool to repair culverts and decrease flooding issues, roadway damage and time and money spent on repairs.

Smart Transformation Award (Development and deployment of solutions that implement asset management or smart infrastructure by improving field data capture, data analysis, automation and real-time collection, or work instructions.)

Winner: Mohave County, Arizona

Innovation: "Culvert Inspection Mobile Application"

Description: The Mohave County Public Works developed a mobile application to improve data analytics for the inspection of culverts not included in the annual National Bridge Inspection Program Survey.

Pioneer Award (Development of new tools and equipment by agency inventors. The tools should provide a better way to do the job and advance road maintenance and construction.)

Winner: LaMoure County, North Dakota

Innovation: "Spring Load Arm Enhancement for Gravel Saver Disc"

Description: The LaMoure County Highway Department developed the Spring Load Arm Enhancement to prevent damage to the Gravel Saver Disc and save time and money for residents.



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**Need training but budget cuts won't allow travel?
Request a class and we'll bring it to you virtually!**

We understand your training needs and the tremendous budget cuts everyone is dealing with in this economy. By logging on to www.mdt2center.umd.edu and requesting a course that 10 or more of your employees need, we'll bring our course to you virtually.

Requesting a course is simple, visit www.mdt2center.umd.edu and fill out our request training form or contact [Janette Prince](mailto:janette@umd.edu) and she'll be glad to assist you.

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