



transportation TRACKS

North Carolina Local Technical Assistance Program (LTAP) Newsletter

Winter 2017

Basic Work Zone INSTALLER Training

We have great news to share with all who are interested in Installer training! Those of us invested in the LTAP work zone safety and flagger training are very proud of how we strive to keep NC transportation workers and the public safe. Over the years, our programs have transformed as client needs have changed. Federal updates and new NCDOT procedures are woven in to course offerings to keep you up with the most recent requirements. And we've done it again!

We are now pleased to introduce the latest tweak – the “Basic Work Zone INSTALLER Training” class. We are amending our Basic Work Zone Safety course to provide installer certification. There will be no changes; these will be enhancements to the current Basic class. We will highlight the few situations where NCDOT requirements are above and beyond the MUTCD. And there will be testing at the end of the course to summarize what was covered during the day and for reading NCDOT roadway standard drawings. Those successfully completing the course will receive an installer certification pocket card.

Effective July 2018, NCDOT will require those installing work zones on their highway construction projects to be certified. They still require Flagger Certification for anyone flagging on their roads. And they still have Work Zone Supervisor Certification, mandatory for those overseeing work zone traffic control in their company, agency, or department. Now they are implementing Work Zone Installer Certification. While intended for people on NCDOT highway projects, we will be extending this to others as well through our training.

Remember when you see this new course title, Basic Work Zone INSTALLER Training, we are just updating our current training to meet new requirements.



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Send Us Your 2018 Training Requests

If you can provide space, we can bring classes to you!

Email Andrea Jarus at aljarus@ncsu.edu

transportation**TRACKS**
Technology Transfer Newsletter

Published by the North Carolina Local Technical Assistance Program at the Institute for Transportation Research and Education at North Carolina State University
itre.ncsu.edu



Increasing Warm Mix Asphalt Implementation

This recording series is a follow up to a previous [video series](#) about Warm Mix Asphalt (WMA). This current 4:48 video presents the state-of-the-knowledge of warm mix asphalt (WMA), including a summary of the national survey on WMA, the two day national workshop held in May 2017, and an overview of current implementation practices. It is an innovation found in the [EDC-1 Series](#).

Save The Date!

Course: New Silica Standard - Strategies for Municipal Compliance

Date: January 11, 2018

Place: Raleigh

Instructor: Paul McCain



Get the Picture!

Can you tell what's wrong with this picture? Turn to page 4 to see what the problem is.



You Can Earn A Gold Star For This One!

Notice anything unusual about this driver's license? Looks just like the one in your wallet...or does it? In case you aren't aware of this yet, starting in 2020, you will need a different version of your NC driver's license to fly – even within the U.S. It'll also be asked for in order to enter a military base, nuclear facility, or any federal building.

Called the N.C. REAL ID, it is just like your traditional license or ID, but comes with a gold star endorsement in the top right corner. This vetted clearance will soon facilitate boarding commercial airplanes and visiting anything of high security.

The cost? It's the same as any other license or ID, and the process is very similar to the first time you sought either. You simply go to your nearest [N.C. DMV](#) with [documentation that proves four things](#):

- Your identity and date of birth
- Your full Social Security number
- Your current North Carolina residency
- Your legal presence (lawful status)

[\(View a list of acceptable documents here.\)](#)

To confirm your identity and residency under the federal law, the N.C. DMV scans these documents and permanently stores them securely in your DMV record. The reason for this move is pragmatic and all about safety.

In response to the terrorist attacks of 9/11, Congress passed the REAL ID Act in 2005 to establish minimum security standards for state-issued driver licenses and IDs to help prevent fraudulent identification. The U.S. Department of Homeland Security established the standards.

On Oct. 1, 2020, the Transportation Security Administration will begin enforcing REAL ID requirements at airport security checkpoints and federal agencies will begin requiring them for all federal facility admissions.

Rather not get a REAL ID? You'll still be able to gain access to all of the above-mentioned areas by showing your regular license or ID along with a passport or [another document](#) verifying your identity.

If your name doesn't match your birth certificate or you have any other special questions, check out this FAQ web page at [NC DOT.gov](#).

Smartphone Apps for Improving Safety?

University of Kentucky, Technology Transfer Program

Smartphone apps are not just about playing games. They can now increase safety and efficiency in the workplace. It's important to get employees engaged about safety. Use of technology, especially smartphone apps, can play a big role in employee engagement.

Once they are engaged, they participate in a meaningful way and take ownership of their personal safety, as well as the safety of others at the company. When smartphones are properly utilized, workplace safety will improve for the better.

Below are a list of smartphone apps that are worth evaluating to see how they can benefit your organization. They can be found at app stores for applicable devices.

AccuWeather

The AccuWeather app works not only as a general forecasting tool, but also as a severe weather advisory. It automatically puts alerts on your home screen if an alert is issued in your area.

American Red Cross

The American Red Cross provides free apps geared specifically toward certain severe weather events such as tornadoes, wildfires, earthquakes, and floods. In addition, they have apps for general first aid, pet first aid and blood donation.

Tornado by American Red Cross

Get your family and home ready for a tornado. The American Red Cross tornado app is the complete solution you need to understand and prepare for a tornado and all that comes with it.

Flood by American Red Cross

The Flood app helps you understand and prepare for flooding. With interactive quizzes and simple step-by-step advice, it's never been easier to be ready.

First Aid by American Red Cross

Accidents happen. The official American Red Cross First Aid app puts expert advice for everyday emergencies in your hand. With videos, interactive quizzes and simple step-by-step advice, it's never been easier to know first aid.

Emergency Alerts & Notifications

Keep your family safe in severe weather, man-made/natural hazards with this app. Monitor conditions in your area and prepare your family and your home.

ATSSA Work Zone Safety

ATSSA's Work Zone Safety app can help you to quickly determine both minimum device spacing and minimum number of devices needed for merging, shifting, shoulder, or flagger operations. It can customize your results to incorporate local standards.



EPA AirNow

Provides real-time air quality information that people can use to protect their health. The app allows the user to get location-specific reports on current air quality and air quality forecasts for both ozone and fine particle pollution.

EPA UV Index

The Ultraviolet (UV) Index predicts the ultraviolet radiation levels on a 1-11+ scale. The UV Index provides a daily forecast of the expected intensity of UV radiation from the sun.

NIOSH Ladder Safety

This app uses visual and audio signals to make it easier for workers using extension ladders to check the angle the ladder is positioned, as well as access useful tips for using extension ladders safely.

OSHA Heat Safety Tool

When you are working in the heat, safety comes first. With the OSHA Heat Safety Tool, you have vital safety information available whenever and wherever you need it – right on your mobile phone. The App allows workers and supervisors to calculate the heat index for their worksite and displays a risk level to outdoor workers.

Waze

Waze is the world's largest community-based traffic and navigation app. Join other drivers in your area who share real-time traffic and road info, saving everyone time and gas money on their daily commute.

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Download Red Cross apps at
redcross.org/mobileapps



Got 20/20 Vision?

How about an idea that could enhance roadway safety, shorten project delivery time, reduce traffic congestion, or perhaps improve environmental sustainability? If so, the Federal Highway Administration / Every Day Counts (FHWA/EDC) wants you! Or, at least, wants your ideas.

More specifically, the FHWA welcomes innovations and processes that have the potential to transform the way the highway transportation community does business by improving road safety, on all levels. Your input may assist them in identifying proven, market-ready ideas for potential launch through the fifth round of EDC-5 in 2019-2020.

FHWA works with state transportation departments, local governments, tribes, private industry, and other stakeholders to identify a new collection of quality innovations to champion every two years that merit accelerated deployment. After selecting these new ideas, transportation leaders from across the country gather at regional summits to identify opportunities to implement the ones that

best fit the needs of their respective state highway programs.

Following the summits, states finalize their choices, establish performance goals for the level of adoption and implementation over the upcoming two-year cycle, and begin to employ them with the support of the technical teams established for each innovation.

There is no limit to the number of ideas that may be suggested by an individual or entity. The FHWA is seeking suggestions of broad categories of innovations and respondents should not submit suggestions for unique, proprietary, or patented products. [See this page for details.](#)

In addition, FHWA seeks feedback on user experiences with specific, high-value innovations under the ["Innovations of Interest"](#) and tentatively identified for accelerated deployment.

Deadline: January 18, 2018

Get The Picture!

By Timothy B. Baughman, PE | ITRE's Highway Operations and Safety Manager

Here's the situation in the photo. Previously at this point, a two-lane, two-way road widens to a three-lane road – one through lane each way with a two-way left-turn lane in the middle. However, in this stage of the construction project, they've removed the two-way left-turn lane and have used that space to shift the through lane in our view. It is still a two-lane, two-way road. So what's wrong with this picture?

If you've been through our work zone training, I hope you remember that an arrow board in an arrow mode SHALL only be used to close a lane on a multi-lane road. An arrow mode SHALL not be used at a shift; it SHALL not be used for roadside or shoulder work; it SHALL not be used on a two-lane, two-way road. When used at a shift, on the roadside / shoulder, or on a two-lane, two-way road, the arrow board SHALL only be used in the caution mode. And this state wants us to use the four-corner caution mode.

We have lots of motives in our training. Worker safety is top of the list. We make it personal that we need to provide good traffic control for the safety of our family and friends driving through our work zones. And we look at the various traffic control devices and discuss their applications. But when applying these devices in work zone situations, we need to understand the need for uniformity and the implications of SHALL conditions in the national Manual on Uniform Traffic Control Devices.

Personally, I love arrow boards when closing a right lane or a left lane on a multi-lane road. In many cases, they can be seen before the advance warning signs. So what's wrong with an arrow mode in this situation? If a driver changes lanes, where do they go? Head-on into a vehicle from the other direction! We need to remember



these SHALL conditions not only for their legal implications but also the deadly consequences if misused.

If you haven't been through our training, we'd like to see you – for your sake as well as your family and friends. If you haven't heard about our work zone and flagger training, see the article in this Tracks newsletter for information about the program.

If you have any questions about worker safety and work zone traffic control, give me a call at (919) 515-8654, or e-mail me at tbb@ncsu.edu.

NC LTAP News & Updates

To update your mail information, add a colleague to the database, or obtain information about Roads Scholar Program fax this sheet to 919-515-8897 or complete online at go.ncsu.edu/NCLTAPcontact.



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Your Name _____

Company/Organization _____

Address _____

City _____ **State** _____ **Zip** _____

Phone _____

Fax _____

Email _____

Check Appropriate Items

Add/Update email information to NCLTAP listserv NCTROADS

Send information about Roads Scholar program

Send schedule of training opportunities

NCTROADS Listserv

Subscribe to the NC LTAP listserv. It is free and easy. Send a message to linda_collier@ncsu.edu and ask to be added to NCTROADS.

This is an informal network for the exchange of news about current research, discussion of problems and solutions, request for advice and assistance, and announcements of upcoming conferences, events and training opportunities for transportation personnel. Once you are subscribed, you can send a message all the listserv members at NCTROADS@lists.ncsu.edu

NC Local Technical Assistance Program 2018 Schedule

Questions or Email Registration: aljarus@ncsu.edu

For Online Registration: itre.ncsu.edu/training/ltap-training/

Date	Class Title	Cost	RS/ARS/MRS	Location
Thursday, January 11, 2018	New Silica Standard - Strategies for Municipal Compliance	\$150.00	ARS	Raleigh
Wednesday, January 17, 2018	OSHA 10 Hour	\$175.00	ARS	Raleigh
Tuesday, January 23, 2018	Soils Fundamentals	\$125.00	RS	Raleigh
Tuesday, January 23, 2018	OSHA 10 Hour	\$175.00	ARS	Waynesville
Thursday, January 25, 2018	New Silica Standard - Strategies for Municipal Compliance	\$150.00	ARS	Concord
Tuesday, January 30, 2018	Confined Space	\$150.00	ARS	Raleigh
Thursday, February 1, 2018	Trenching Competent Person	\$150.00	ARS	Concord
Tuesday, February 6, 2018	Trenching Competent Person	\$150.00	ARS	Raleigh
Friday, February 9, 2018	Trenching Competent Person	\$150.00	ARS	Raleigh
Tuesday, February 13, 2018	Confined Space	\$150.00	ARS	Charlotte
Thursday, February 15, 2018	Fall Protection	\$150.00	ARS	Raleigh
Thursday, February 22, 2018	New Silica Standard - Strategies for Municipal Compliance	\$150.00	ARS	Mooresville
Tuesday, February 27, 2018	Basic Installer Work Zone Safety	\$125.00	RS	Raleigh
Wednesday, February 28, 2018	Guardrail Installation and Maintenance	\$125.00	ARS	Raleigh
Thursday, March 1, 2018	Basic Drainage/Roadway Drainage Maintenance	\$125.00	RS	Raleigh
Friday, March 2, 2018	Flagger Training AM	\$90.00	RS	Raleigh
Tuesday, March 20, 2018	Excavation Safety	\$150.00	RS	Raleigh
Monday, March 26, 2018	ADA Self Evaluations & PROWAG	\$135.00	ARS	Raleigh
Tuesday, March 27, 2018	Road Safety 365	\$125.00	RS	Raleigh
Wednesday, March 28, 2018	Road Safety Fundamentals	\$125.00	RS	Raleigh
Thursday, March 29, 2018	Low Cost Safety Improvements	\$135.00	RS	Raleigh
Wednesday, April 4, 2018	Chain Saw Safety	\$150.00	RS	Raleigh
Thursday, April 5, 2018	Excavation Safety	\$150.00	RS	Charlotte

LTAP Links on the Web

Transportation Information at your fingertips!

NC LTAP	https://itre.ncsu.edu/focus/ltap/
Narional LTAP/TTAP	http://www.ltap.org/
NC Department of Transportation (NCDOT)	https://www.ncdot.gov/
Federal Highway Administration (FHWA)	https://www.fhwa.dot.gov/
US Department of Transportation (USDOT)	https://www.transportation.gov/
UNC School of Government	https://www.sog.unc.edu/
Institute of Transportation Engineers	http://www.ite.org/
NC Section of ITE (NCSITE)	http://ncsite.org/
Winter Driving Tips - staying safe	https://www.ncdot.gov/travel/severeweather/winter.html https://ops.fhwa.dot.gov/weather/weather_events/snow_ice.htm

NC LTAP Advisory Board

Tracy Anderson (NCSU/ITRE)	Eric Keravuori (Town of Wake Forest)
Jonathan Boone (City of Rocky Mount)	Barry Lowry (Town of Chapel Hill)
Downey Brill (NCSU/ITRE)	James Martin (NCSU/ITRE)
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Andrea Jarus (NCSU/ITRE)	Bill Woods (NCSU/ITRE)
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