



**Center for  
Local Aid Support**

**Tribal Technical  
Assistance Program**



**16<sup>th</sup> Annual Alaska Tribal  
Transportation Symposium**

**March 19-21, 2018**



# CENTER FOR TRANSPORTATION STUDIES

*at the University of Virginia*

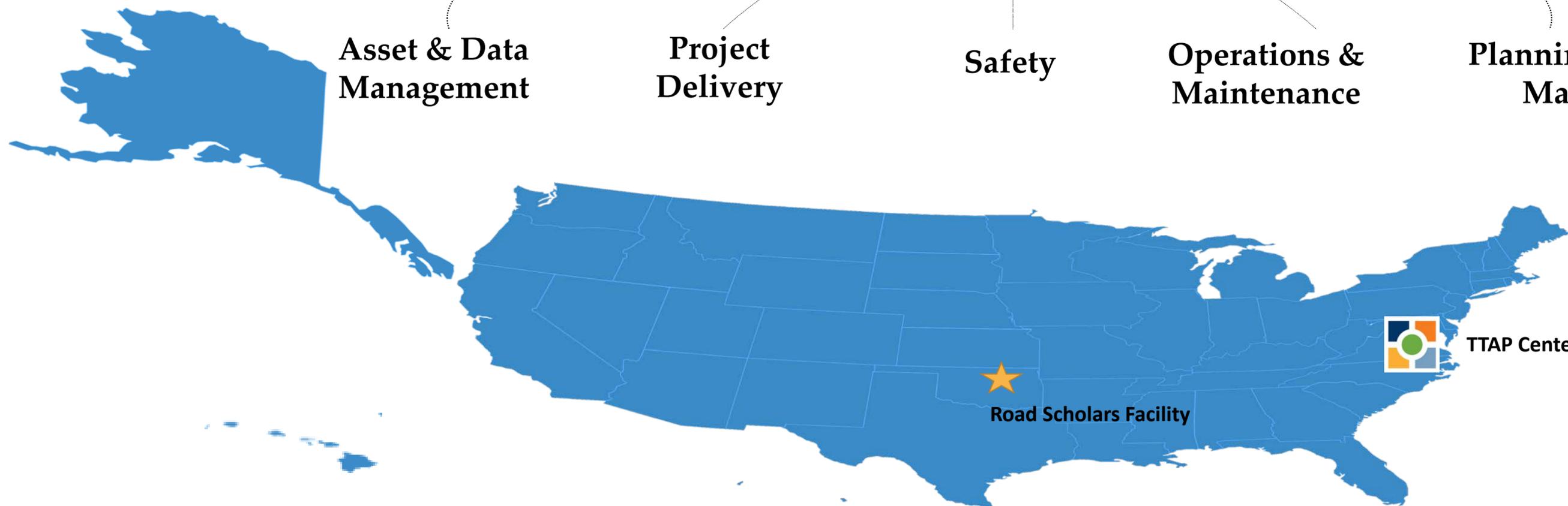
Asset & Data  
Management

Project  
Delivery

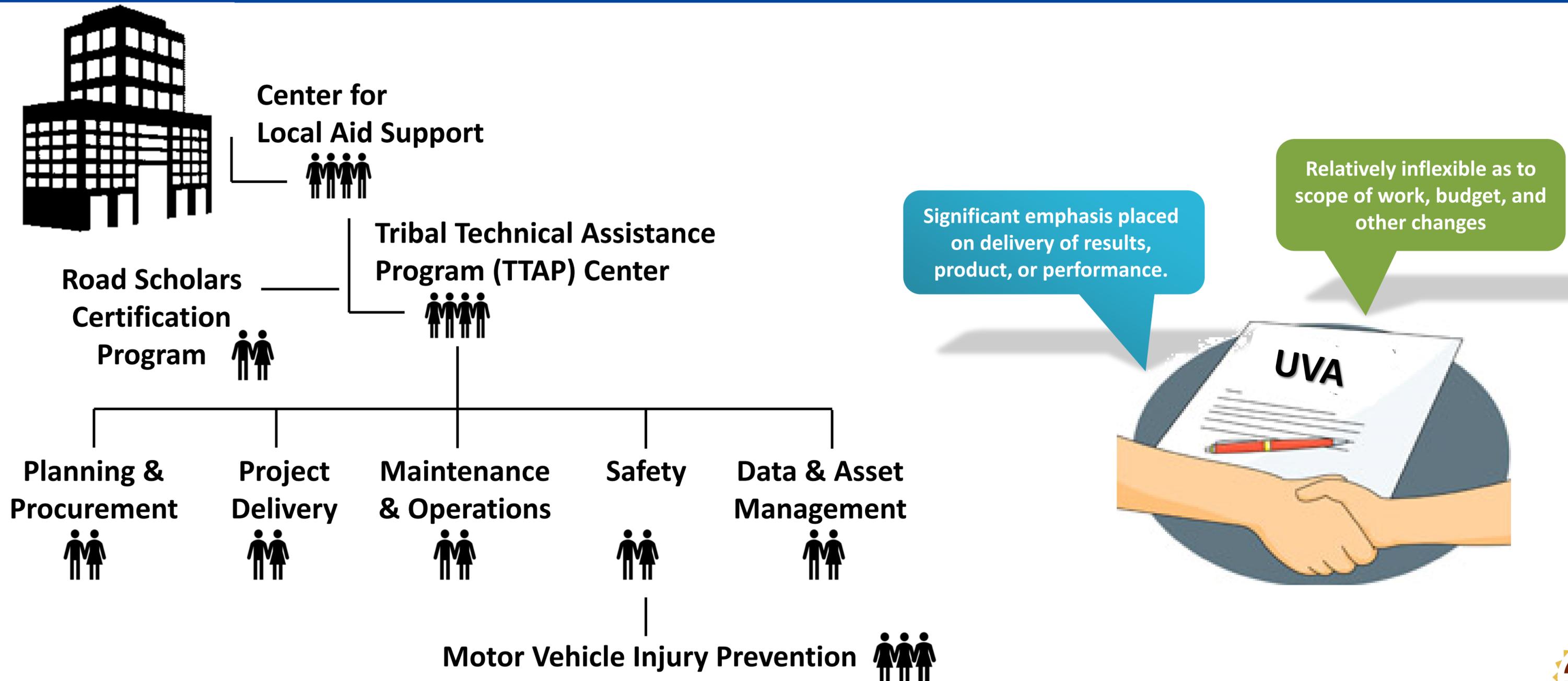
Safety

Operations &  
Maintenance

Planning & Program  
Management

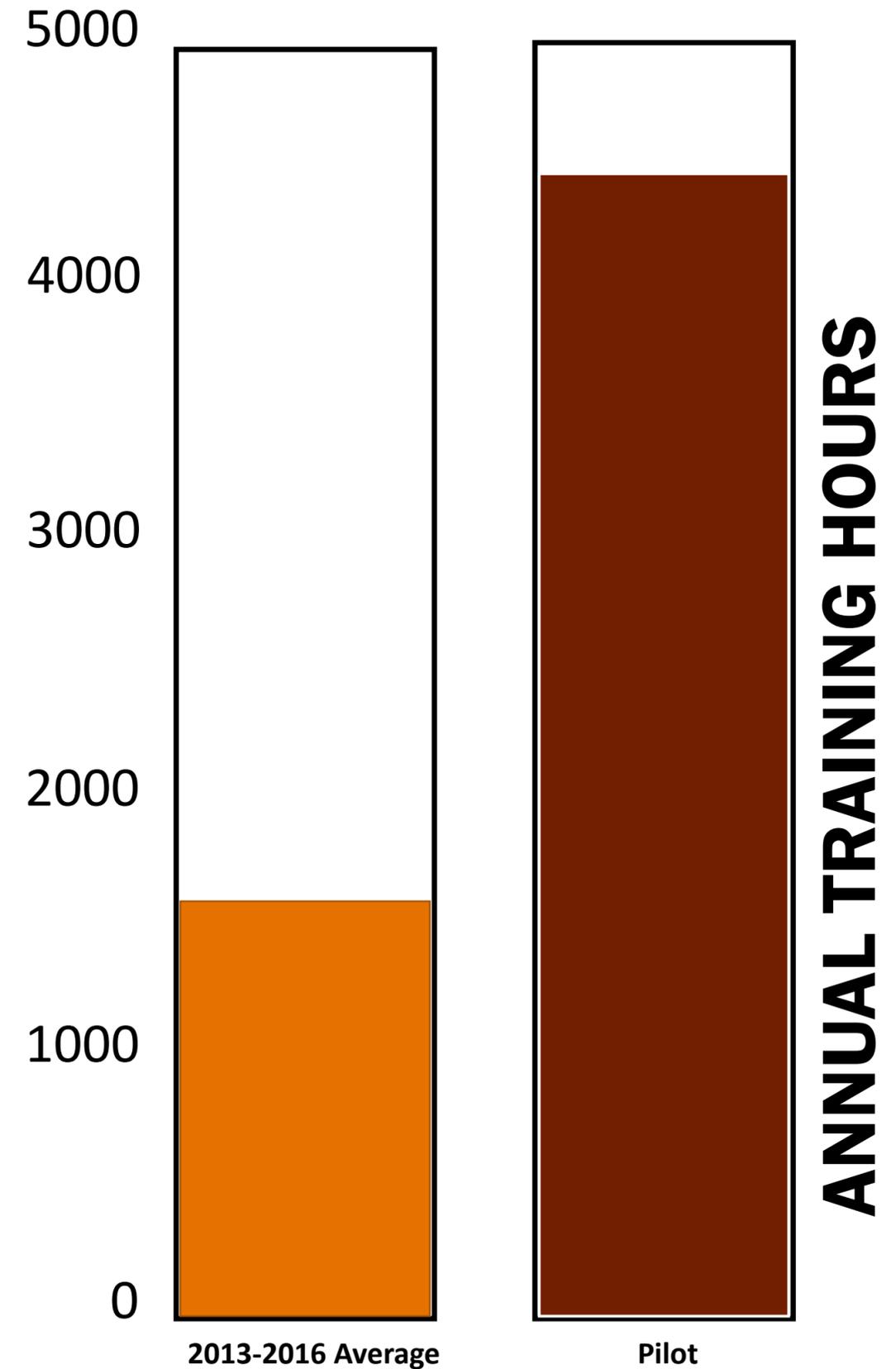


# 2-Year Contract for **PILOT** Program



**TTAP focus  
is on  
Training & Technical  
Assistance**

Delivery of a core  
highway curriculum  
to **build**  
workforce capacity



# Safety Focus on Motor Vehicle Injury Prevention



# Road Scholars Certification Program





# Technical Assistance



**Request Technical Assistance**

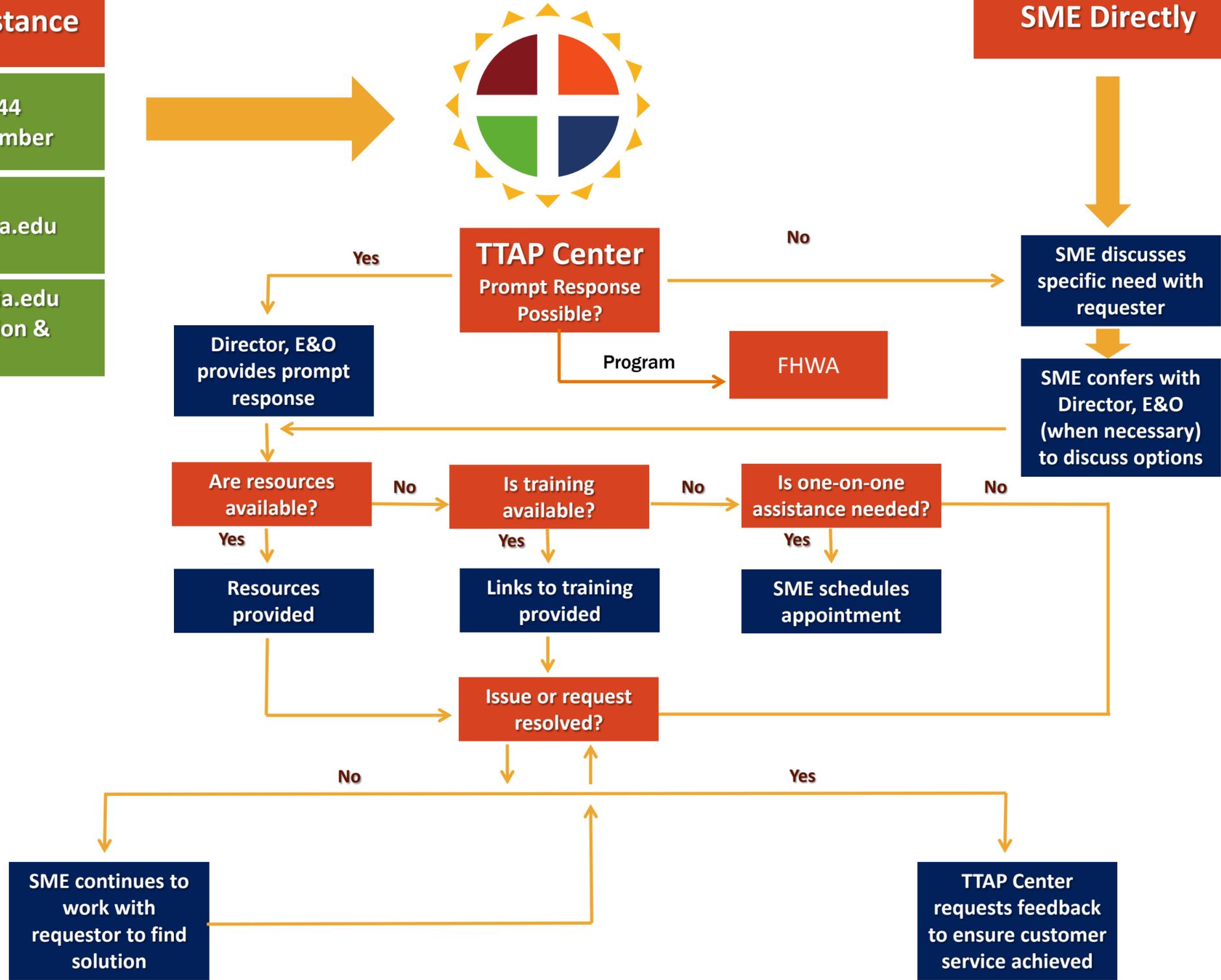
1-833-484-9944  
toll free TTAP number

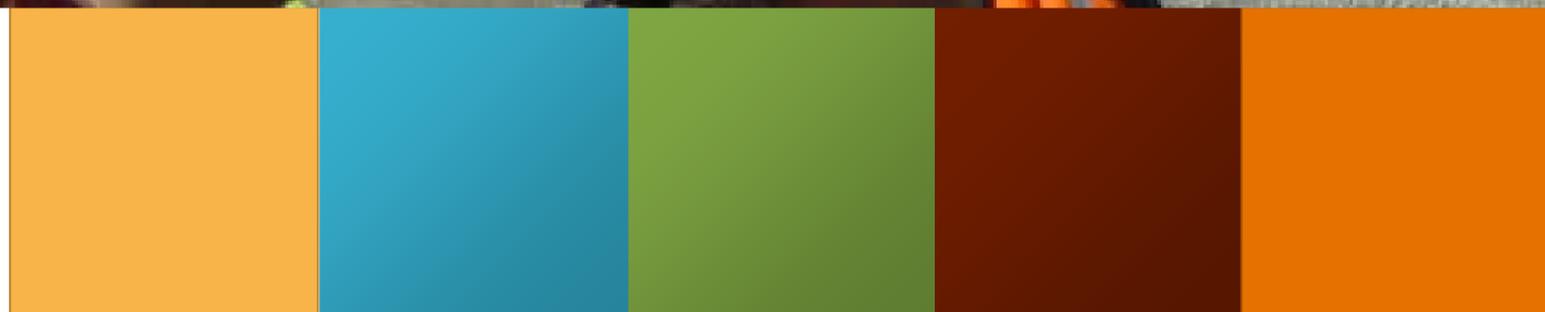
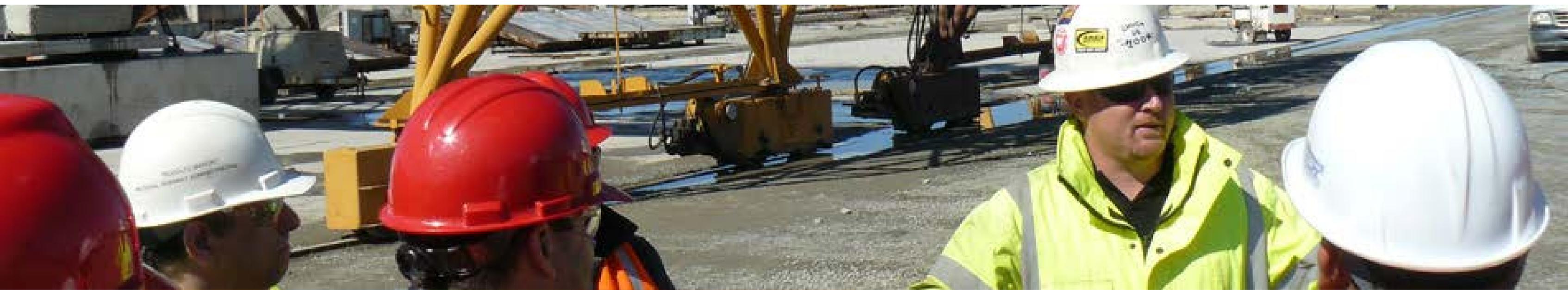
info.ttap@virginia.edu

walt.ttap@virginia.edu  
Director, Education & Outreach

**TTAP Technical Assistance Process**

**Contact SME Directly**





# Training



# TRAINING DELIVERY

SAFETY - Todd Morrison Juneau, AK 4/3/18-4/6/18				
8:30am to 12:00pm	Safety Plan Development	Crash Data Analysis	Low Cost Safety Improvements	Improving Safety at Intersections
1:00pm to 4:30pm	Safety Data: What data do I collect and how do I collect it	Road Safety Audits/Assessments	Safe Transportation for Every Pedestrian	Roundabouts

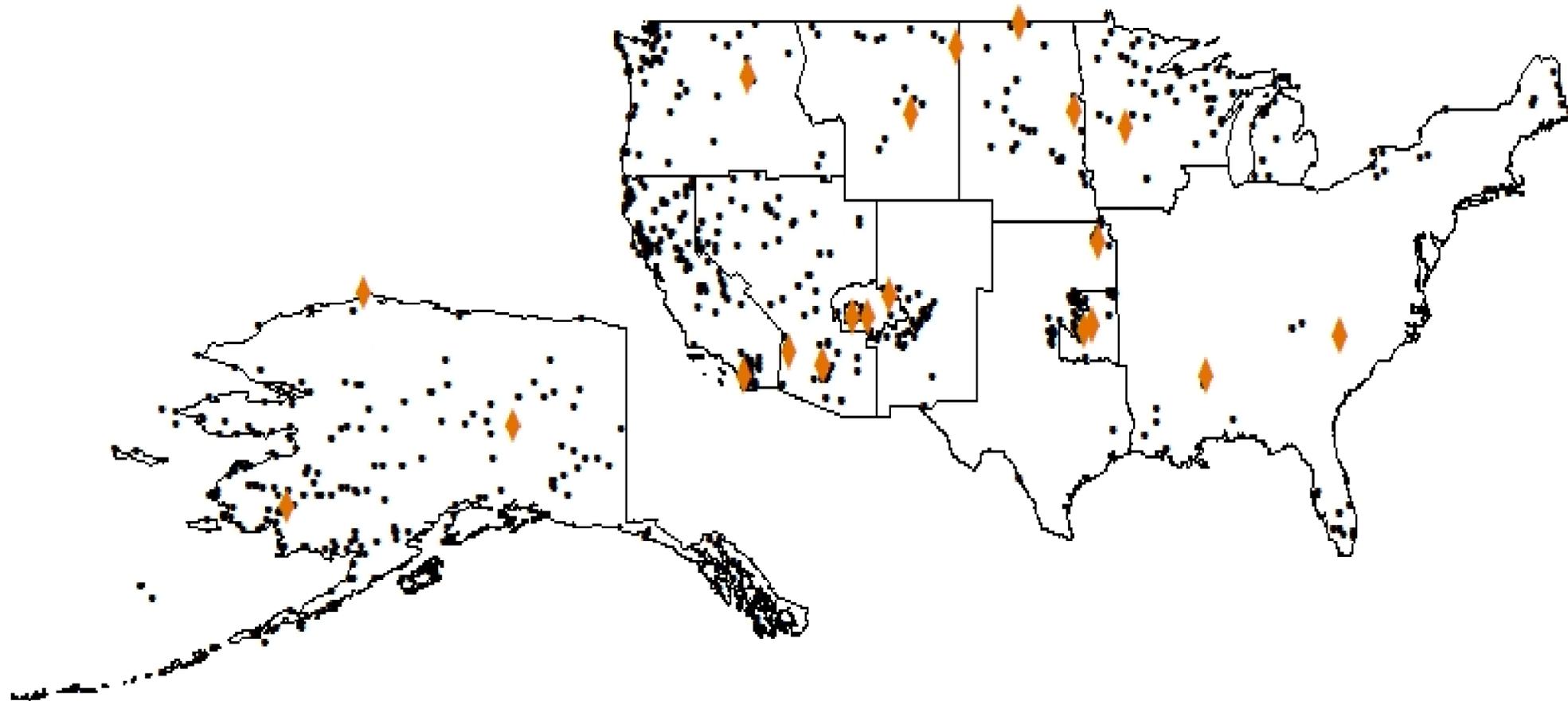
MOTOR VEHICLE INJURY PREVENTION - Kelly Powell Anchorage, AK 5/15/18-5/18/18				
8:30am to 12:00pm	Prioritizing MVIP Interventions	Strategies To Increase Restraint Use	Safe Native American Passengers	Car Seat Checkpoint
1:00pm to 4:30pm				-----

PROJECT DELIVERY - Kim Johnson Fairbanks, AK 5/22/18-5/25/18				
8:30am to 12:00pm	Getting Your Project Started	Procedures for ROW Acquisition	Contract Management for A&E and Related Service Contracts	Emergency Relief Projects
1:00pm to 4:30pm	Force Account Work	Utility Coordination	Cost and Schedule Management	Project Completion and Closeout

ASSET & DATA MANGEMENT - Mike Morgan Nome, AK 6/26/18-6/29/18				
8:30am to 12:00pm	Introduction to Asset & Data Management	Introduction to GPS	Maintenance Condition Assessment	Objective Prioritization of Needs
1:00pm to 4:30pm	Foundation for Using GIS	GPS Data Collection and Asset Management	Developing an Inventory of Highway Features	Understanding Life Cycle Costs and Optimum Treatment Types



# Project Delivery



## Core Curriculum

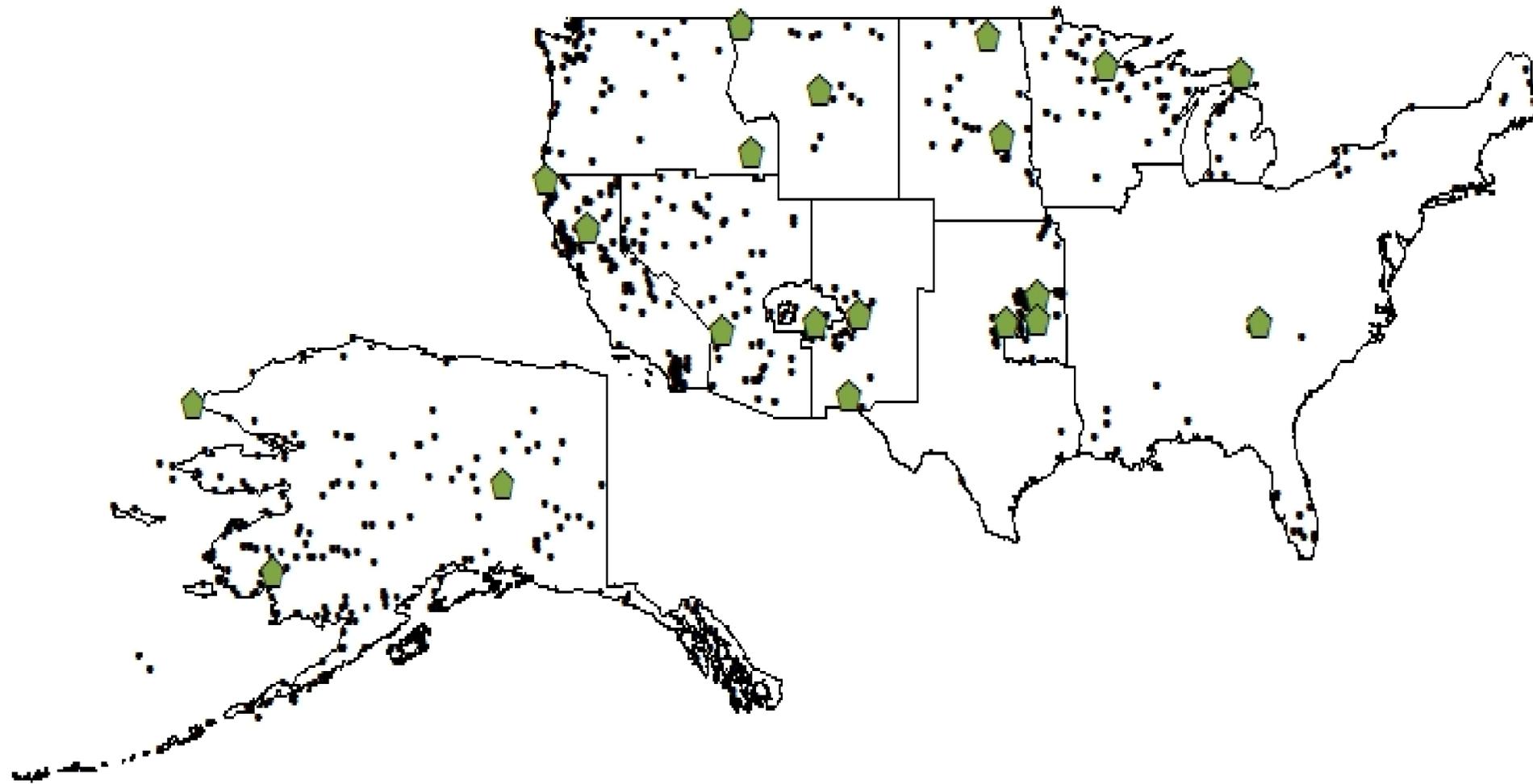
- Getting Your Project Started
- Developing a Statement of Work for A&E Consultant Contracts
- Contract Management for A&E and Related Services Contracts
- Environmental Requirements for Transportation Projects
- Environmental Permits, Certificates and Licenses
- Storm Water and Erosion Control
- Procedures for Right-of-Way Acquisition
- Utility Coordination
- Construction Contract Administration
- Cost and Schedule Management
- Quality Assurance/Quality Control
- Project Completion and Closeout
- Force Account Work
- Emergency Relief Projects
- Introduction to Highway Construction Inspection

Each module is 3.5 hours incorporating innovative technologies, casework and best practices

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
March 27-30	Yuba City, CA	May 22-25	Fairbanks, AK	August 14-17	Barrow, AK	October 30- Nov1	Bethel, AK
March 27-30	Anthem, AZ	June 12-15	Parker, AZ	August 28-31	Okmulgee, OK	October 16-19	Second Mesa, AZ
April 17-20	Topeka, KS	June 26-29	Sheridan, WY	September 11-14	Sidney, MT	November 13-16	Wewoka, OK
April 17-20	Rock Hill, SC	July 17-20	Jackson, MS	September 11-14	Bottineau, ND	November 13-16	Farmington, NM
May 15-18	Mankato, MN	July 24-27	Fort Defiance, AZ	October 2-5	Lapwai/Lewiston, ID	December 11-14	Watertown, SD
						December 4-7	Escondido, CA



# Maintenance & Operations



## Core Curriculum

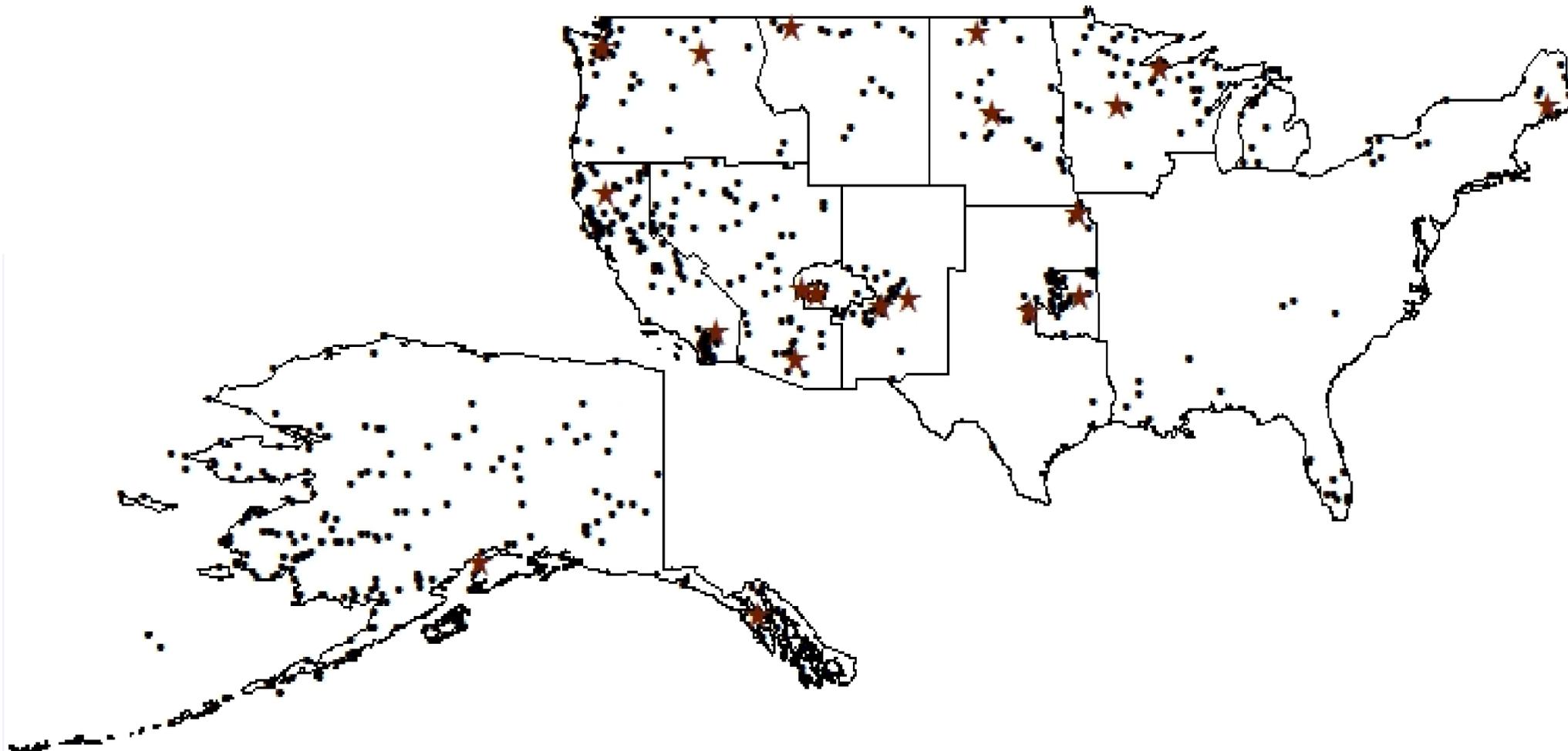
- Maintenance Administration
- Developing Operational Budgets and Resource Allocation
- Bridge Inspection
- Bridge Maintenance
- Elevation and Grade Instrument Use
- Pipe Installation and Maintenance
- Sign Maintenance and Management
- Gravel Road Maintenance and Design
- Stabilization and Dust Abatement
- Roadside Maintenance
- Pavement Preservation Strategies
- Guardrail Installation, Maintenance and Repair
- Work Zone Safety
- Installation and Maintenance of Erosion Control Devices
- Temporary Traffic Control
- Winter Weather Operations

Each module is 3.5 hours incorporating innovative technologies, casework and best practices

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
March 27-30	Okmulgee, OK	May 15-18	Gallop, NM	August 21-24	Bethel, AK	October 16-19	Chico, CA
March 27-30	Point Hope, AK	June 19-22	Las Cruces, NM	August 21-24	Browning / Cut Bank, MT	November 13-16	Cherokee, NC
April 10-13	Devil's Lake, ND	June 19-22	Bartlesville, OK	September 11-14	Duluth, MN	November 13-16	El Reno, OK
April 17-20	Billings, MT	July 17-20	Mitchell, SD	September 11-14	Los Alamos, NM	December 11-14	Fairbanks, AK
May 5-11	Fort Hall/Pocatello, ID	July 17-19	Crescent City, CA	October 10-19	Kingman, AZ	December 4-7	Sault Ste. Marie, MI



# Planning & Procurement



## Core Curriculum

- Introduction to Planning
- Developing your Transportation Improvement Plan
- Long Range Transportation Planning
- Data Use in Planning
- Public Involvement
- Financial Planning/Fiscal Constraint
- Project Prioritization
- Single Audit
- Procurement 101
- Procurement Planning
- Procurement Process - Solicitation thru Contract Award
- Evaluation and Selection of Consultants
- Cost Estimating
- Contract Cost Negotiations
- Contract Execution and Other Considerations
- Contract Specification Writing

Each module is 3.5 hours incorporating innovative technologies, casework and best practices

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
March 27-30	Pierre, SD	June 12-15	Twentynine Palms, CA	August 28-31	Rio Rancho, NM	November 6-9	Juneau, AK
April 10-13	Port Orchard, WA	June 26-29	Minot, ND	September 11-14	Second Mesa, AZ	November 27-30	Bloomington, MN
April 24-27	Second Mesa, AZ	July 10-13	Anadarko, OK	September 11-14	Redding, CA	December 11-14	Shelby, MT
May 8-11	Las Vegas, NM	July 24-27	Plummer/Coeur D'Alene, ID	October 9-12	Bangor, ME	December 18-21	Eloy, AZ
May 22-25	Muskogee, OK	July 24-27	Kenai, AK	October 23-26	Horton, KS		
		August 7-10	Ashland, WI				

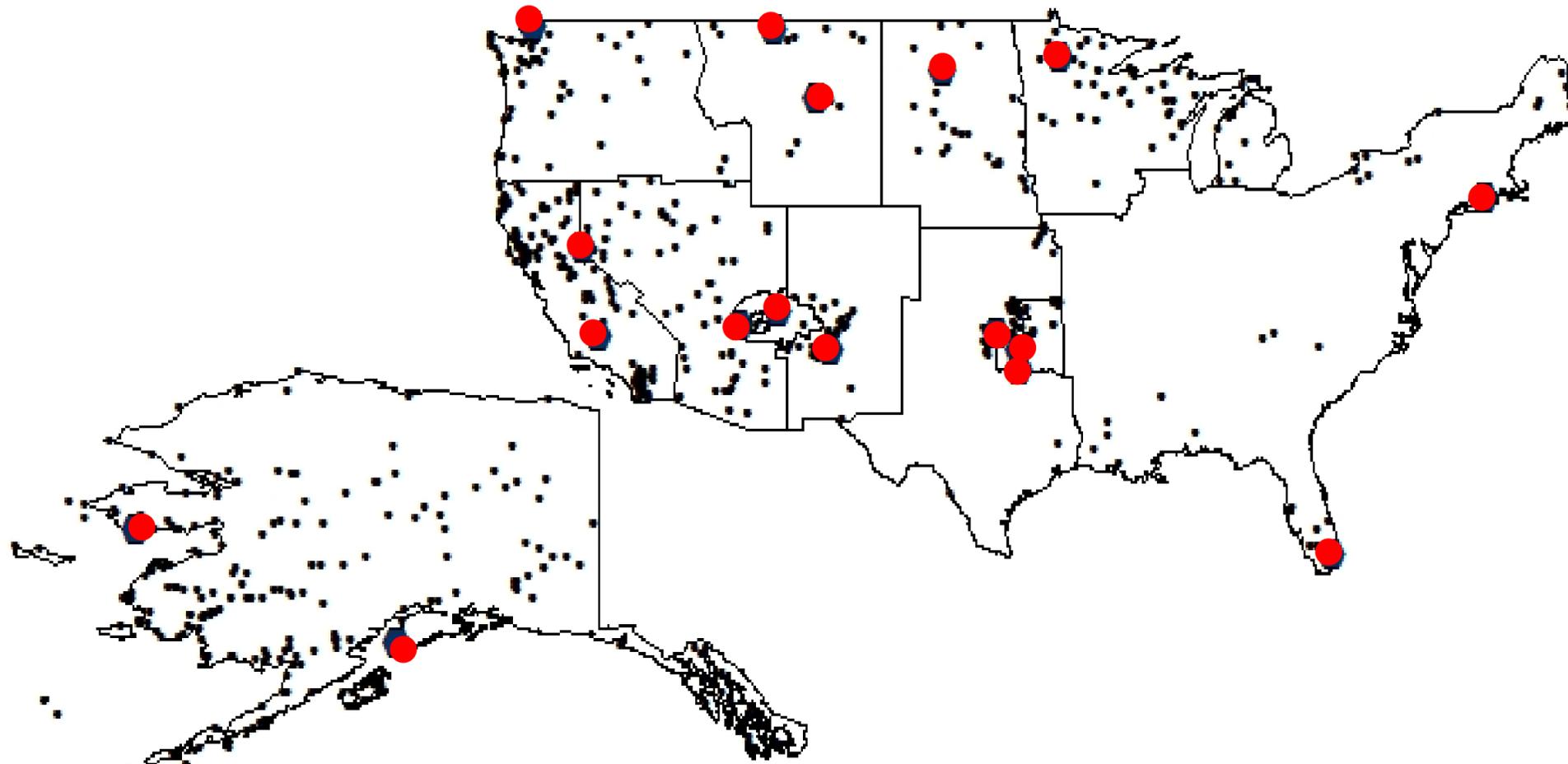


# Asset & Data Management

## Core Curriculum

- Introduction to Asset & Data Management
- Introduction to GPS
- Sloping an Inventory of Highway Features
- Objective Prioritization of Needs
- Understanding Life Cycle Costs and Optimum Treatment Types
- Maintenance Condition Assessment

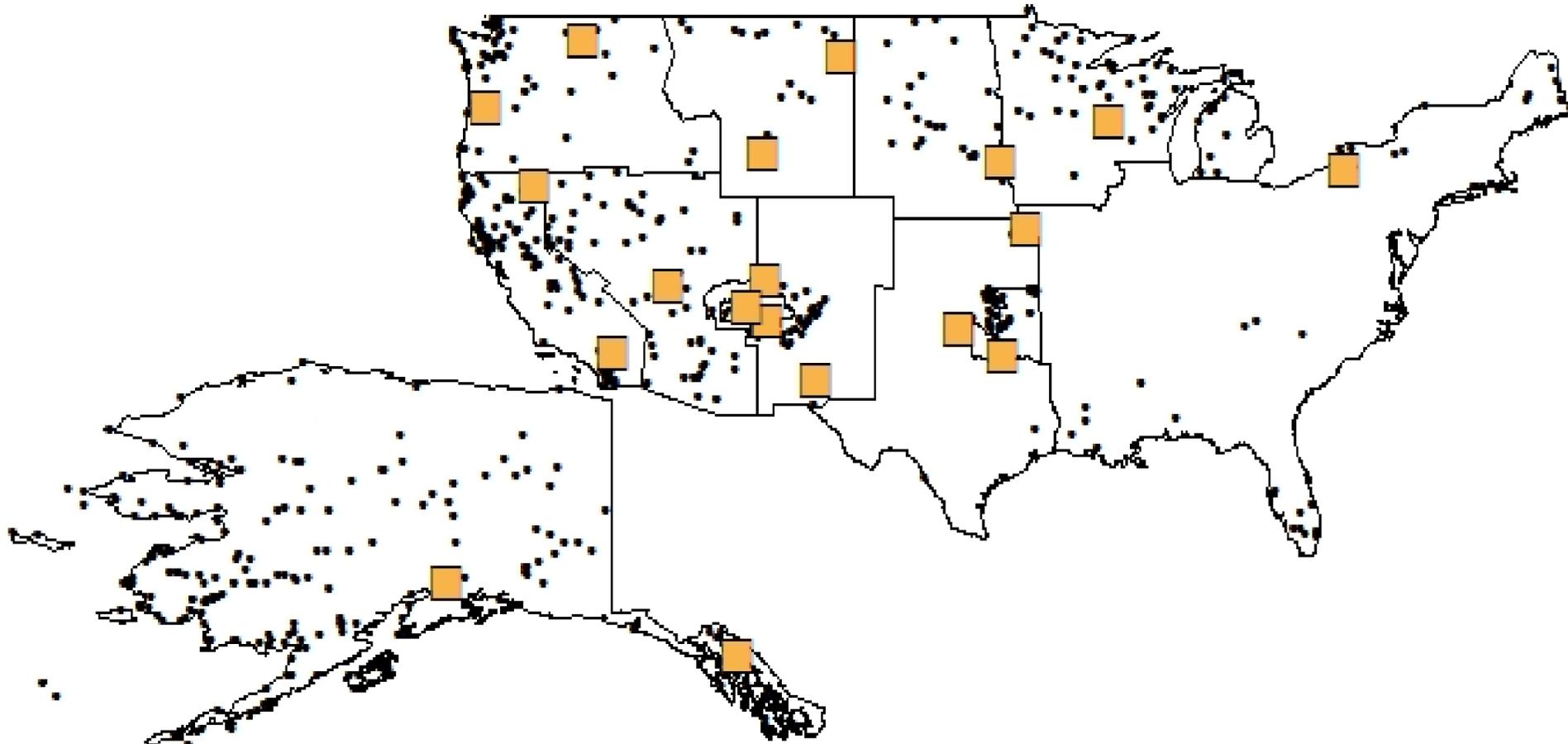
Each module is 3.5 hours incorporating innovative technologies, casework and best practices



<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
April 24-27	Bakersville, CA	May 22-25	Uncasville, CT	August 28-31	Hollywood, FL	October 23-26	Bismarck, ND
May 15-18	El Reno, OK	June 26-29	Cass Lake, MN	August 28-31	Second Mesa, AZ	November 27-30	Bellingham, WA
		June 26-29	Nome, AK	September 25-28	Homer, AK	November 27-30	Chinle, AZ
		July 10-13	Carson City, NV	September 25-28	Ada, OK	December 18-21	Durant, OK
		July 24-27	Havre, MT	October 23-26	Crow Agency, MT	December 18-21	Albuquerque, NM



# Safety



## Core Curriculum

- Safety Plan Development
- Improving Safety at Intersections
- Safe Transportation for Every Pedestrian
- Road Safety Audits/Assessments
- Worker Safety
- Safety Data: What data do I need and how do I collect it.
- Crash Data Analysis
- Low Cost Safety Improvements
- Signalized Intersections
- Roundabouts
- Improving Safety of the Roadway by Controlling the Right of Way

Each module is 3.5 hours incorporating innovative technologies, casework and best practices

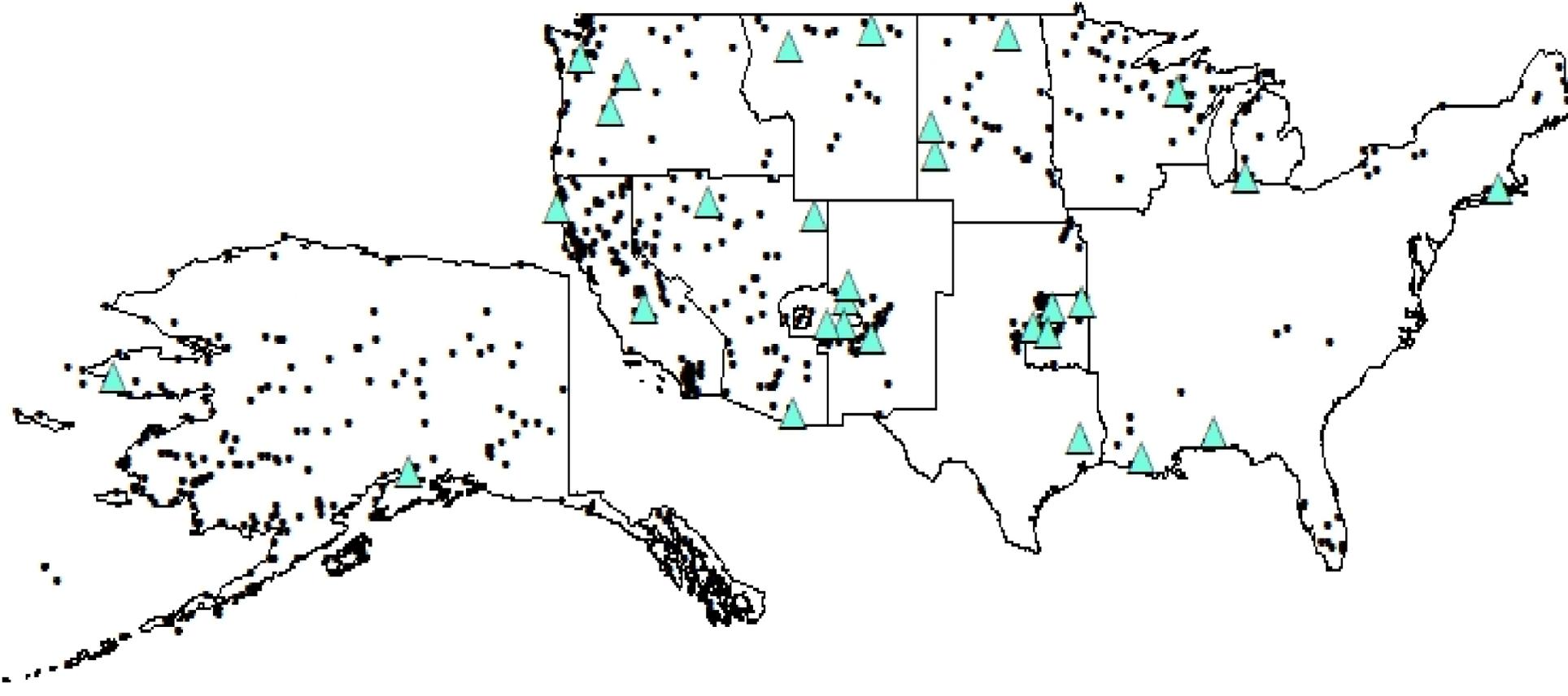
<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
March 22-23	Salem, OR	May 15-18	Alturas, CA	August 14-17	St. George, UT	October 9-12	Alamogordo, NM
April 3-6	Cortez, CO	June 5-8	Horton, KS	July 31- August 3	Sioux City, SD	November 6-9	Fort Washakie, WY
April 3-6	Juneau, AK	June 12-15	Chinle, AZ	September 11-14	Salamanca, NY	November 13-16	Twentynine Palms, CA
May 22-25	Glendive, MT	July 10-13	Black River Falls, WI	September 25-28	Wellpinit/Spokane, WA	December 4-7	Fort Defiance, NM
		July 17-20	Durant, OK	October 9-12	Anchorage, AK	December 4-7	Anadarko, OK



# Motor Vehicle Injury Prevention

## Core Curriculum

- Strategies to Increase Restraint Use
- Basic Child Passenger Safety Awareness Course;
- Prioritizing MVIP interventions;
- National Standardized Child Passenger Safety Technician Certification Course;
- Car Seat Checkpoint;
- Injury Prevention

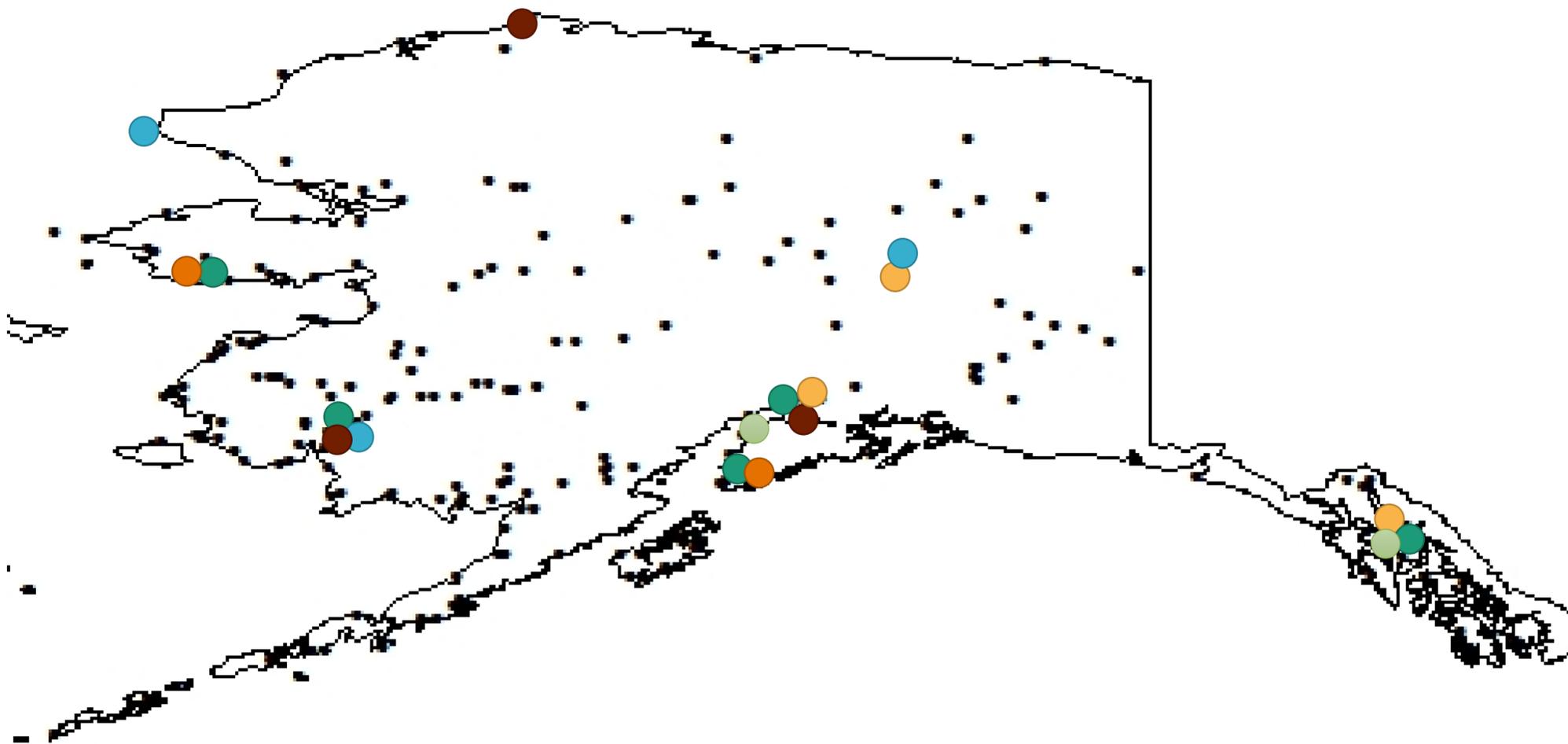


<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
March 20-23	Oklahoma City, OK	May 15-18	Anchorage, AK	July 24-27	Durango, CO	October 23-26	Dowagiac, MI
March 27-30	Window Rock, AZ	May 22-25	Elko, NV	August 7-10	Olympia, WA	October 16-19	Fort Totten, ND
March 27-30	Glasgow, MT	June 12-15	Visalia, CA	August 14-17	Fortuna, CA	November 6-9	Rapid City, SD
April 10-13	Seminole, OK	June 19-22	Altmore, AL	August 21-24	Great Falls, MT	November 13-16	Pawnee, OK
April 10-13	Rhineland, WI	June 26-29	Warm Springs/Burns, OR	September 4-7	Green Valley, AZ	November 13-16	Fort Duchesne, UT
April 30 – May 3	Albuquerque, NM	July 10-13	Narragansett, RI	September 11-14	Livingston, TX	December 4-7	Toppenish/Yakima, WA
May 15-18	Chadron, NE	July 17-20	Nome, AK	September 11-14	Shiprock, NM	December 11-14	Gallop, NM
				October 9-12	Grove, OK	December 11-14	Charenton, LA



# Alaska Schedule

● Main & Ops	March 27-30	Point Hope, AK
● Safety	April 3-6	Juneau, AK
● Project Delivery	May 22-25	Fairbanks, AK
● MVIP	May 15-18	Anchorage, AK
● Asset & Data Mgt.	June 26-29	Nome, AK
● MVIP	July 17-20	Nome, AK
● Plan & Procure	July 24-27	Kenai, AK
● Project Delivery	August 14-17	Barrow, AK
● Main & Ops	August 21-24	Bethel, AK
● Asset & Data Mgt.	September 25-28	Homer, AK
● Safety	October 9-12	Anchorage, AK
● Project Delivery	October 30-Nov 1	Bethel, AK
● Plan & Procure	November 6-9	Juneau, AK
● Main & Ops	December 11-14	Fairbanks, AK





# Distance Learning - A complete list of online classes will be available shortly.

Is internet access an issue? Contact us at 833-484-9944 (toll free)  
or at [info.ttap@virginia.edu](mailto:info.ttap@virginia.edu)  
to discuss alternative distance learning options





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A VALUABLE PARTNER**

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[LOGIN](#) to the Training Store to access the entire TC3 curriculum.

**\$ COST SAVINGS**

TC3 allows States to cost-effectively train staff with quality and relevant course material, saving them from the increasing training costs that continuously challenge DOT managers.

**💡 INNOVATION**

Courses provided by TC3 are developed through a collaboration of national best practices and a network of knowledgeable subject matter experts, ensuring the curriculum meets the challenges of today and tomorrow. TC3 provides 100% online access by offering classes as web-based training.

**👤 SKILLED WORKFORCE**

TC3 is dedicated to help protect against the loss of knowledge and prepare the workforce for advancements in technologies through quality training. More than 100,000 individuals have been trained through TC3 courses over the past 5 years.





CONSTRUCTION



MATERIALS



MAINTENANCE



TRAFFIC AND  
SAFETY



PAVEMENT  
PRESERVATION



EMPLOYEE  
DEVELOPMENT



**CDL General Knowledge (3 hours)**

Non-Member Price: \$0.00

Member Price: \$0.00

Subscription Price: \$0.00



**Cold In-Place Recycling (CIR) (4 PDHs)**

Non-Member Price: \$0.00

Member Price: \$0.00

Subscription Price: \$0.00



**Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (5 PDHs)**

Non-Member Price: \$0.00

Member Price: \$0.00

Subscription Price: \$0.00



**Earthwork Series: Excavation (3 PDHs)**

Non-Member Price: \$0.00

Member Price: \$0.00

Subscription Price: \$0.00



**Guardrail Series: Installation and Inspection of New Guardrails (2.5 PDHs)**

Non-Member Price: \$0.00

Member Price: \$0.00

Subscription Price: \$0.00

# INNOVATION EXCHANGE

Conversations Launching Change

Discussions targeted to Local Agencies, Tribes  
and Federal Land Management Agencies programs

E-Construction

March 22, 2018 at 1:00 PM – 2:30 pm EST

Dust Management

April 5, 2018 at 1:00 PM – 2:30 pm EST

Temporary Road Surface Mats  
To Reduce Low Volume Road Damage

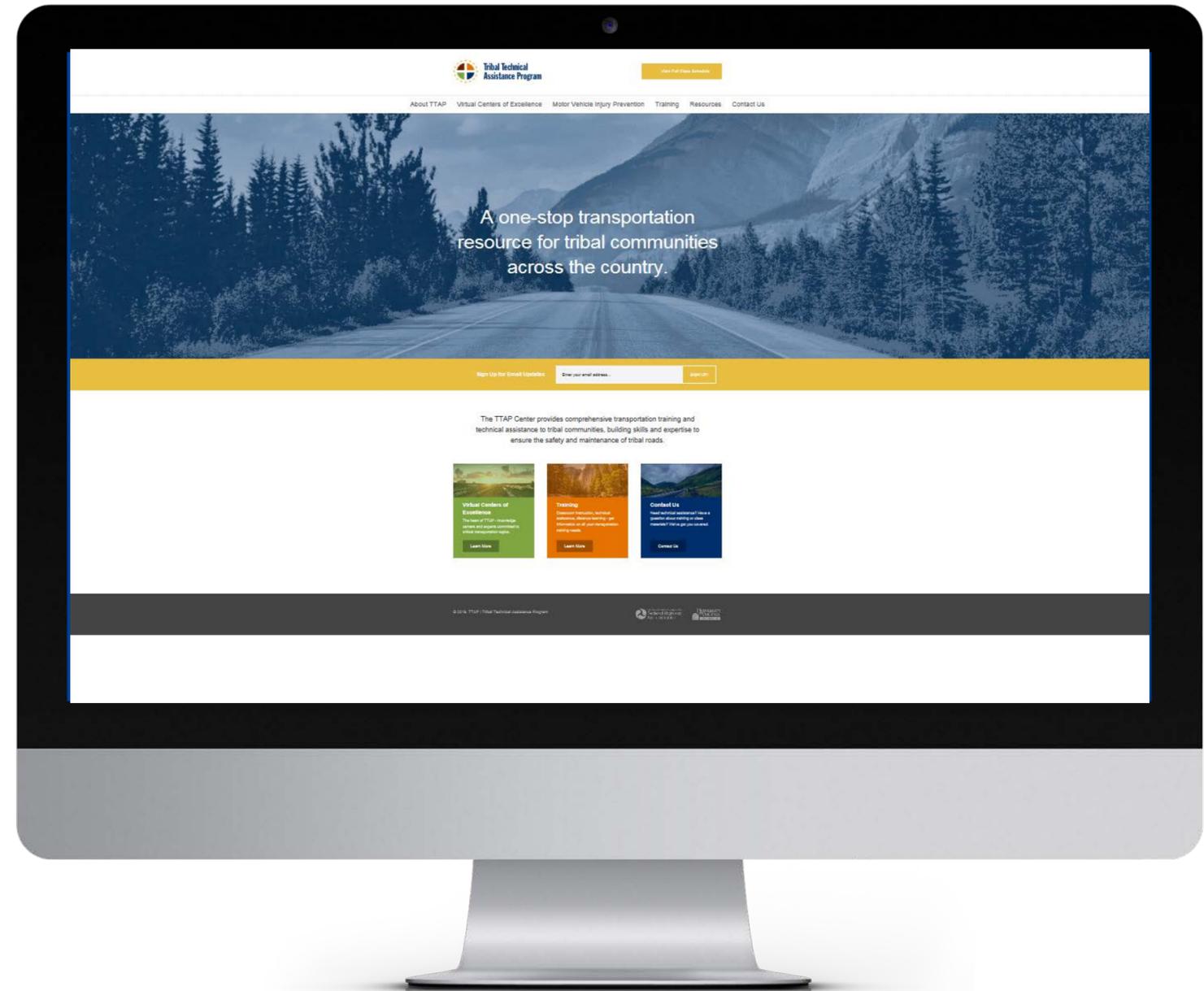
April 19, 2018 at 1:00 PM – 2:30 pm EST





at

<https://ttap-center.org/>





## Virtual Centers of Excellence

The heart of TTAP - knowledge centers and experts committed to critical transportation topics.

[Learn More](#)



## Training

Classroom instruction, technical assistance, distance learning - get information on all your transportation training needs.

[Learn More](#)



## Contact Us

Need technical assistance? Have a question about training or class materials? We've got you covered.

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Technical Assistance

[View Full Class Schedule & Register](#)

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# Virtual Centers of Excellence

At the heart of the TTAP program are the Virtual Centers of Excellence (VCoEs), each dedicated to one of the following critical transportation topic areas:

- Project Delivery
- Maintenance and Operations
- Safety
- Planning and Procurement
- Asset and Data Management

While there is no building or physical location, each virtual center provides an immediate source for focused technical assistance and training expertise, establishing direct lines of communication between tribal transportation needs and Subject Matter Experts (SMEs) with the capabilities to address those needs.

Each VCoE consists of SMEs dedicated to responding to all inquiries and requests within their particular area of expertise, no matter where their home base. SMEs are visiting every BIA region, bringing focused in-classroom coursework and technical assistance so participants can immediately apply this knowledge and skills in their workplace.



[Home](#) | [Class Schedule](#)

## Class Schedule

Click on a class below to begin the enrollment process:

Filter classes by location:

All Locations

### Maintenance & Operations: Gravel Road Maintenance and Design

There are approximately 1.6 million miles of unpaved roads in the United States. In this 3.5-hour Gravel Road Maintenance and Design training class, supervisors and operators will gain a better understanding of the materials, techniques, and equipment needed for maintaining gravel roads. Participants will learn details about road design from construction to reshaping as well as recognizing the necessity of proper drainage. Many aspects of road maintenance, from the grading process to material replacement, will be discussed. This highly interactive class combines lecture with group discussion, case studies, and group exercise.

#### Learning Outcomes:

After completing this class students should be able to: 1. Identify best practices for gravel road maintenance; 2. Describe the importance of proper drainage on gravel roads; 3. List reasons for grading gravel roads; 4. Apply best practices in various road maintenance scenarios; 5. Select appropriate grading techniques needed to improve a gravel road; 6. Explain the use of culverts and how to install them; and 7. Identify techniques and applications to stabilize the road.

#### The course content includes:

- Grading techniques
- Why proper drainage is critical
- Identification of road problems and solutions
- Culvert installation and use
- Various types of aggregates and proper application
- Road stabilization application
- Group Exercise

Wednesday, March 28, 2018 from 8:30 AM to 12:00 PM  
Oklahoma - Okmulgee, OK

Wednesday, March 28, 2018 from 8:30 AM to 12:00 PM  
Illinois - Hope Point, OK

Wednesday, April 11, 2018 from 8:30 PM to 12:00 PM  
North Dakota - Devils Lake, ND

### Maintenance & Operations: Installation and Maintenance of Erosion Control Devices

### Maintenance & Operations: Pavement Preservation Strategies

### Maintenance & Operations: Pipe Installation and Maintenance

### Maintenance & Operations: Roadside Maintenance

### Maintenance & Operations: Soil Stabilization and Dust Abatement

### Maintenance & Operations: Temporary Traffic Control

### Maintenance & Operations: Work Zone Safety

### Motor Vehicle Injury Prevention: Car Seat Checkpoint

### Motor Vehicle Injury Prevention: Prioritizing MVIP Interventions

### Motor Vehicle Injury Prevention: Safe Native American Passengers

### Motor Vehicle Injury Prevention: Strategies To Increase Restraint Use

### Planning & Procurement: Cost Estimating

### Planning & Procurement: Financial Planning/Fiscal Constraint

### Planning & Procurement: Intro to Planning

### Planning & Procurement: Procurement 101

### Planning & Procurement: Procurement Planning

### Planning & Procurement: Procurement Process - Solicitation thru Contract Award

### Planning & Procurement: Public Involvement

## Secure Site



Please be assured that your information is protected and secure. We value your privacy and do not provide customer information to any third parties.

## Contact Us

Tribal Technical Assistance Program  
University of Virginia  
351 McCormick, Rm B122E  
Charlottesville, VA 22904  
833-484-9944 (toll free)  
[info.ttap@virginia.edu](mailto:info.ttap@virginia.edu)



[Home](#) | [Class Schedule](#)

## Class Enrollment



Maintenance & Operations: Gravel Road Maintenance and Design  
Date/Time: Wed 3/28/2018 from 8:30 AM to 12:00 PM  
Location: Oklahoma - Okmulgee, OK  
Class Price: \$0.00



## Secure Site

Please be assured that your information is protected and secure. We value your privacy and do not provide customer information to any third parties.

## Contact Us

Tribal Technical Assistance Program  
University of Virginia  
351 McCormick, Rm B122E  
Charlottesville, VA 22904  
833-484-9944 (toll free)  
[info.ttap@virginia.edu](mailto:info.ttap@virginia.edu)

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#### The course content includes:

- Grading techniques
- Why proper drainage is critical
- Identification of road problems and solutions
- Culvert installation and use
- Various types of aggregates and proper application
- Road stabilization application
- Group Exercise

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## Class Enrollment

Please complete the following form to reserve your space in this class. You will have an opportunity to review and edit your information after submitting this page.

### Class Information

Course: Maintenance & Operations: Gravel Road Maintenance and Design  
Date/Time: Wed 3/28/2018 from 8:30 AM to 12:00 PM  
Location: Oklahoma - Okmulgee, OK  
Class Price: \$0.00

### Student Information

First Name:   
Last Name:   
Email Address:   
Primary Phone:   
Alternate Phone:

### Mailing Address

Address 1:   
Address 2:   
City:   
State:    
Zip:

### Additional Information

Please include any comments or special requests here:

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# FHWA Communications Plan





**Center for  
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**Tribal Technical  
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# Questions?

**Center for Local Aid Support**

**[https://www.fhwa.dot.gov/innovativeprograms/centers/local\\_aid/](https://www.fhwa.dot.gov/innovativeprograms/centers/local_aid/)**

**TTAP Center**

**<https://ttap-center.org/>**