

TC3 – AASHTO Technical Service Program for Training

Feb. 7th – 9th Mid Atlantic Quality Assurance Workshop

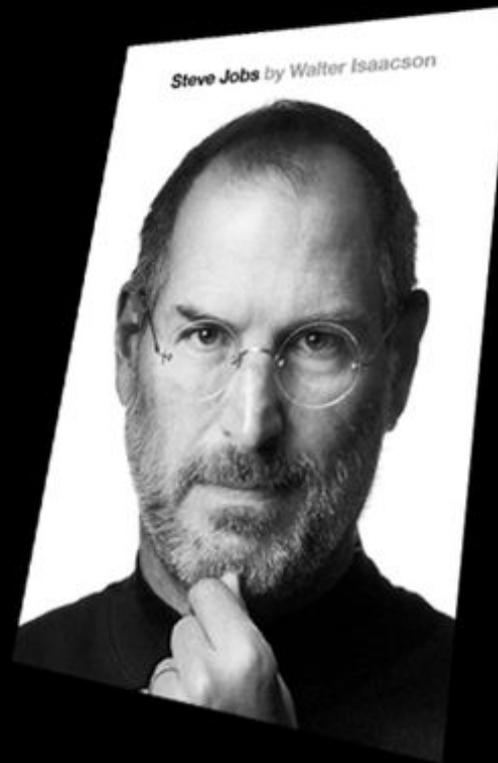
Ron Stanevich, PE
Director of Materials Division, WVDOH



A NATIONAL RESOURCE
A VALUABLE PARTNER

“People who know what they’re talking about don’t need PowerPoint.”

— Steve Jobs
From Walter Isaacson’s
book *Steve Jobs*



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Who is the TC3?

Transportation Curriculum Coordination Council



The purpose of TC3 is to improve training opportunities for a transportation technical workforce, while applying innovative measures to reduce duplication of efforts and costs to state and local transportation agencies.

What is TC3?

AASHTO's Training TSP



Transportation Curriculum Coordination Council

(Established in 2000 – joined AASHTO in 2013)

- Technical Workforce Development
- National Coordinated Approach
- Leveraged Resources
- Growing – relevant curriculum
- Cost-Effective Course Development Process

TC3 Mission

Mission Statement



Develop and maintain a quality training curriculum to enhance the competency of the nation's transportation Construction, Maintenance, and Materials technical workforce.

Products and Services

Developed Through Collaboration



- Employee Competency Matrices
- Comprehensive Web-Based Curriculum
- State Sharing Program
- Mobil Application with Job Aids/Checklists/Glossaries
- Considering National Training Video Repository



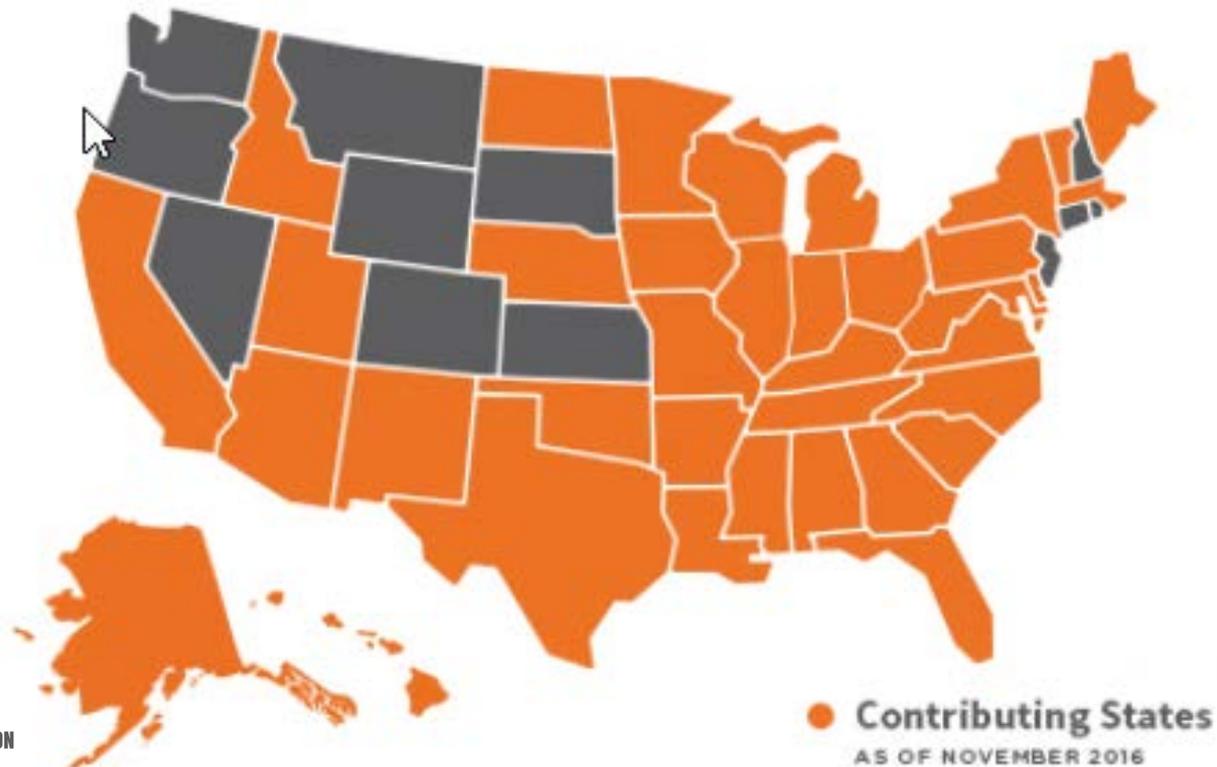
TC3
Accomplishments
2013–2016

TC3 Supporters

Member Growth



2016-2017 State Contributors



Curriculum Benefits

Just in Time Access



- Web-Based Trainings
- Available 24/7
- Broad range of subject areas
- Created by professionals
- Affordable
- Makes employees much more efficient
- Broaden knowledge base to understand how things fit together

Customer Trends

Best Year Ever



Participants



- ⌵ FREE COURSES AND CURRENT PROMOTIONS
- ⌵ NEW COURSES
- ⌵ CONSTRUCTION
- ⌵ EMPLOYEE DEVELOPMENT
- ⌵ MAINTENANCE
- ⌵ MATERIALS
- ⌵ PAVEMENT PRESERVATION
- ⌵ TRAFFIC AND SAFETY
- ⌵ TEXAS DOT COURSES



Quality

Bridge & Culvert Maintenance	
Repair	
	<p>Pile Driving Inspector Tutorial (4 hours)</p> <p>Level III, IV Non-Member Price: \$200.00 Member Price: \$100.00 Subscribed Member Price: \$0.00</p>
	<p>Plan Reading: Bridge Plans (1.5 hours)</p> <p>Level II, III, IV Non-Member Price: \$75.00 Member Price: \$38.00 Subscribed Member Price: \$0.00</p>
	<p>Plan Reading: Culvert Plans (1.5 hours)</p> <p>Level II, III, IV Non-Member Price: \$50.00 Member Price: \$25.00 Subscribed Member Price: \$0.00</p>
Safety	
	<p>Bridge Construction Inspection Safety (1 hour)</p> <p>Level II, III, IV Non-Member Price: \$50.00 Member Price: \$25.00 Subscribed Member Price: \$0.00</p>

- ✓ All
- Asset Management
- Base/Subbase Repair
- Budget and Financial Control
- Contract Management
- Crack Sealing
- Customer Focus
- Distress Analysis
- Drainage Inspection
- Drainage Systems
- Flagging
- Grade Control
- Joint Sealing**
- Lockout/Tagout
- Long Term Traffic Control
- Motorized Equipment
- Patching
- Performance Improvement
- Pipe/Culvert Replacement
- Planning
- Program Presentation
- Quality Control
- Repair
- Safety
- Safety Program
- Scheduling
- Shaping
- Short Term Traffic Control
- Surface Treatment
- Vegetation Management
- Widening

Curriculum Benefits

Self-Paced Learning



?
Pipe Installation, Inspection, and Quality
Close Record

Progress: In Progress Status: Enrolled Required: No Duration: 7 hours

Activities Details
Drop Course

Activities

To access a learning activity, select the activity name and click Launch or Open.

Activity Name ▲	Type	Score	Progress	Last Accessed	Time Taken	Attempts	Action
Pipe Installation, Inspection, and Quality	Online Course	0%	In Progress	11/19/2016 9:46:17 AM	0h 38m	2	Launch
Course Evaluation	Survey	N/A	Not Attempted	N/A	N/A	N/A	Launch

Details

Course Name: Pipe Installation, Inspection, and Quality

Status: Active

Description: **Course overview:** This course is focused on the three basic pipe materials: concrete, metal, and plastic. It contains important instructional material, procedures, and guidance that has been developed to maintain uniformity among pipe inspectors. This course will cover what you need to know, do, and look for during the inspection of pipe installation.

This training provides an in-depth view of the basic materials used in pipe construction. The course modules will address the different types of pipe as well as the foundation work, bedding selection, placement, joint sealants, backfilling and documentation for concrete, metal and plastic pipe.

The information in this training will help transportation professionals involved in the installation, inspection, and quality of pipe on highway construction projects improve their understanding of the factors that contribute to high-quality installations.

Training level: This training is recommended for the Transportation Curriculum Coordination Council levels II, III, and IV.

Curriculum Benefits

Knowledge Checks, Certificates, and PDHs



TC3 TRANSPORTATION CURRICULUM COORDINATION COUNCIL
AASHTO

Pipe Installation, Inspection, and Quality
Module 2: Foundation

Select the answer that best completes the sentence:
The soil should be _____.

- a) Filled with granular material
- b) Excavated
- c) Replaced
- d) All of the above

 Knowledge Check

Slide 9 / 40 | Answer Question

TC3 TRANSPORTATION CURRICULUM COORDINATION COUNCIL

TRAINING
AASHTO

Transportation Curriculum Coordination Council (TC3)
CERTIFICATE OF TRAINING

HAS PARTICIPATED IN:

WEB-BASED COURSE

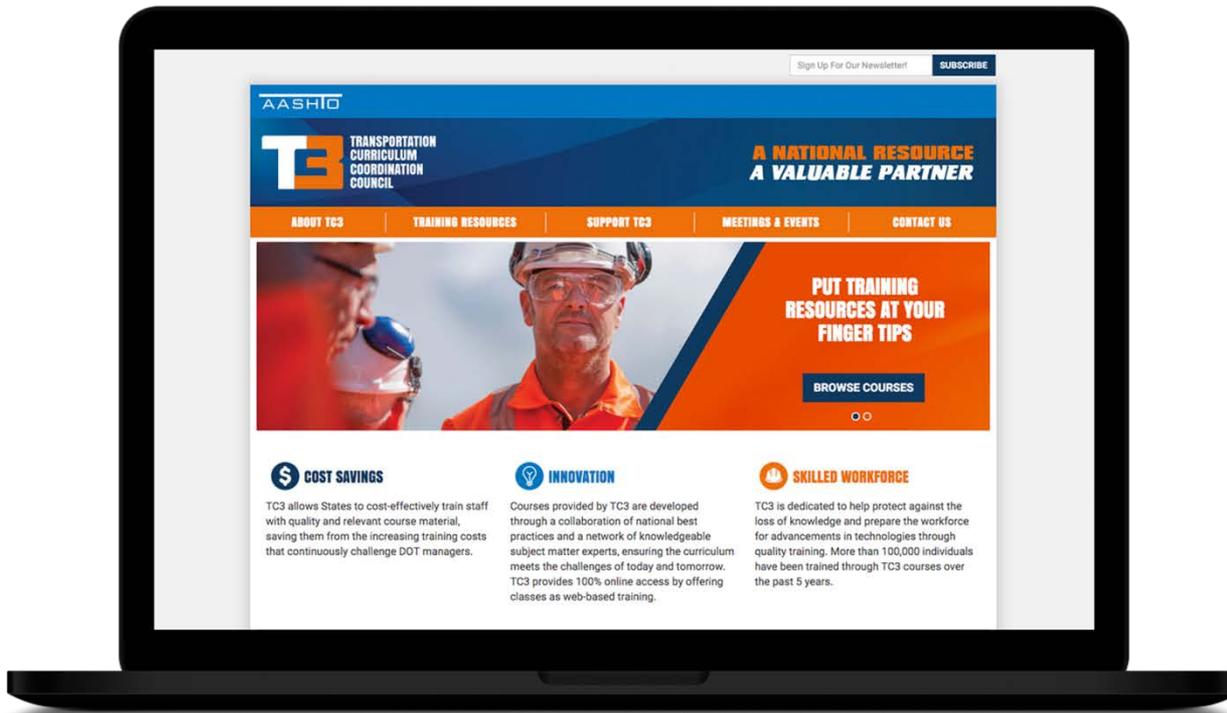
PDH 1.0 Hours
Recommended by TC3

King W. Lee
King Gee // AASHTO Director of Engineering and Technical Services

John M. Terry
John Terry // TC3, Chair; Assistant Director, Engineering/Chief Engineer, Nevada DOT

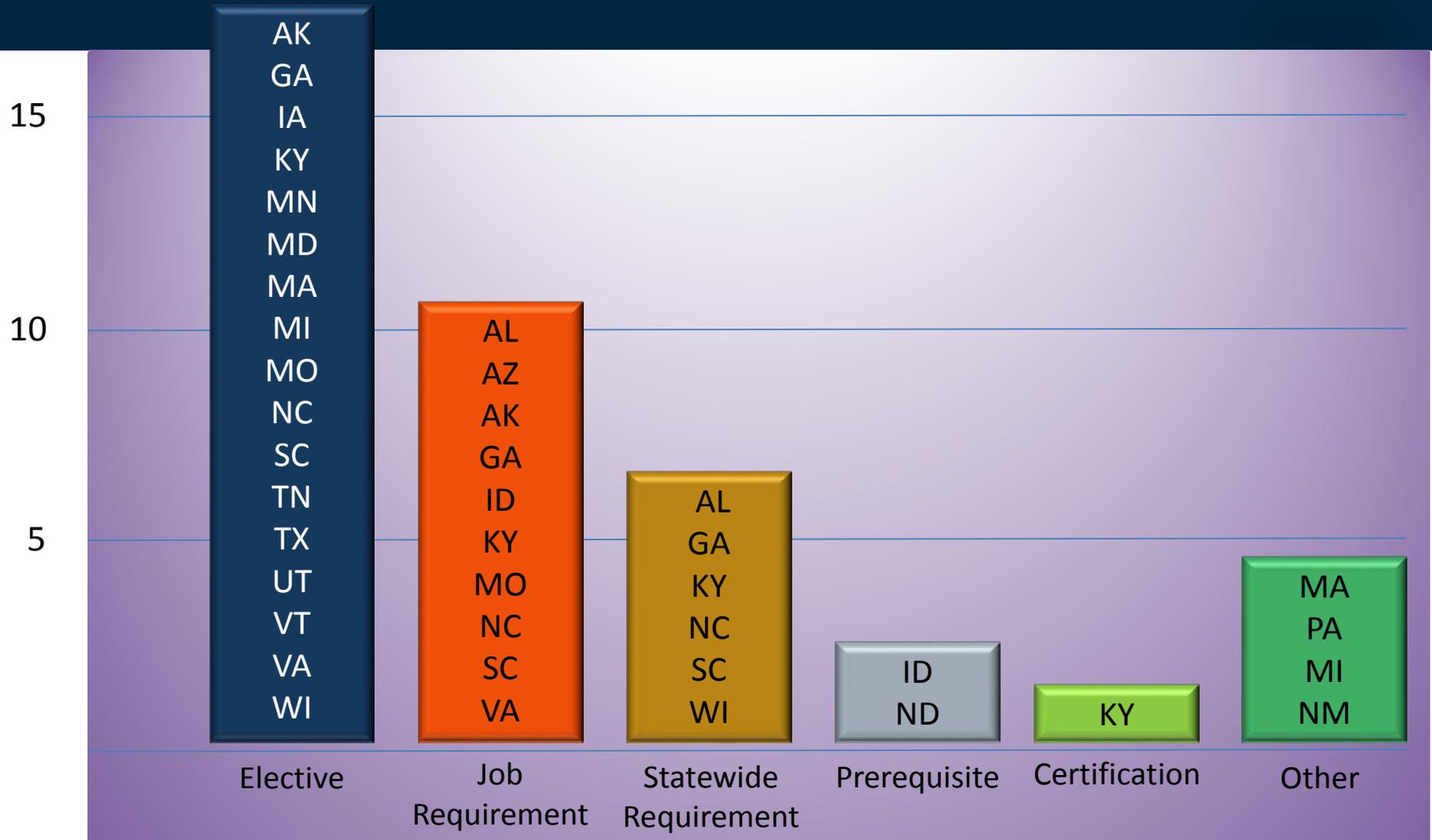
Tools and Products

Perfectly Paired with TC3 LMS



State Sharing Impact

Sharing is Caring



Customer Trends

Increased Use of Courses



State Sharing Partners

From 10 to 25 states since 2012

Customer Contacts

From 1000 to 90,000 + in 2016

Students served

90,000 through 2012

Over 130,000 through 2016

Employee Development Training Subscriptions



FREE TRAINING FOR CONTRIBUTING STATES!

[LEARN MORE](#)

Subscribe for Discounted Prepaid Training

Reduce the cost of training for your private contracting or consulting firm, government transportation agency, or academic institution by choosing a prepaid per-seat or bulk-hour TC3 training subscription.

AASHTO member states that financially contribute to TC3 as a technical service program already have unlimited TC3 training available for all employees and do not require a subscription.

[Buy Training Subscription](#)

AASHTO Partnerships

Partnering on new products



AASHTO re:Source

- Converting AASHTO Test Methods to on-line courses

AASHTO Standing Committee on Environment

- Converting SESC Flip-Books to web-based trainings and on-line Job Aides

AASHTO Equipment Management Technical Services Program

- Converting Preventive Maintenance Concepts content to web-based training



TC3 Curriculum

Curriculum Growth

Updates and New Courses



Curriculum Updates since 2015
(50 courses @ 100+ hours)

New courses in 2016
(40 @ 80+ hours)

New courses under development
(25 courses @ 60+ hours)

Maintenance Courses

Maintenance Training Series



- Pavement Preservation Program (1 hour)
- Shaping and Shoulders (1.5 hours)
- Thin HMA Overlays and Leveling (1.5 hours)
- Base and Subbase Stabilization and Repair (1 hour)
- Roadway Drainage (1 hour)
- Outdoor Advertising and Litter Control (1 hour)
- Roadside Vegetation Management (1 hour)
- Weather-related Operations (1 hour)
- Basics of Work Zone Traffic Control (1 hour)
- Underground Storage Tanks (1 hour)
- Cultural and Historic Preservation (1 hour)

Pavement Preservation

Flexible Pavement Preservation Treatment



- Introduction to Pavement Preservation (1 hour)
- Materials (2 hours)
- Crack Sealing and Filling and Joint Sealing (1.5 hours)
- Localized Pavement Repairs (1.5 hours)
- Chip Seals (1.5 hours)
- Fog Seals (1 hour)
- Slurry Seals (1.5 hours)
- Micro-Surfacing (1.5 hours)
- Thin Functional HMA Overlay (2 hours)
- Ultra-Thin HMA Bonded Wearing Course (1 hour)
- Selecting the Right Treatment (0.5 hours)

New Course Content

Hot Topics Requested by States



- Pile Driving Inspector Tutorial (4 hours)
- Drilled Shaft Inspector Tutorial (4 hours)
- AASHTO T 312 (2 hours)
- Construction Estimating (1 hour)
- Fundamentals of Geosynthetic Materials (4 hours)
- Guardrail Series – 3 Courses (6 hours)
 - Guardrail Basics
 - Installation/Inspection
 - Maintenance and Repair
- Trenchless Technology (5.5 hours)
- Understanding Materials Testing for Inspectors (5 hours)

Course Conversions

Topics Converted from Existing Content



- Introduction to e-Construction (2 hours)
- Construction Stormwater Field Guide Training (5 hours)
- Maintenance Stormwater Field Guide Training (3 hours)
- 3D Engineered Models for Construction Series:
 - Introduction to 3D Engineered Models for Highway Transportation – Module 1 (2 hours)
 - Surveying and 3D Engineered Models – Module 2 (2 hours)
 - 3D Engineered Models in Highway Design – Module 3 (2 hours)
 - Applications of 3D Engineered Models in Highway Construction and Quality Assurance – Module 4 (2 hours)

In Development

Coming Soon!



- Construction Inspection of Structures Series (range from 16 to 20 hours)
 - Subsurface (geotechnical connection between the structure and earth)
 - 3 to 4 hours
 - Substructure (includes the abutments, bents, and piers – the parts that support the girders or beams and the deck) – 4 to 5 hours
 - Superstructure (includes those parts of the bridge supported by the substructure – everything from the girders/beams up, including the bearing devices) – 4 to 5 hours
 - Rehabilitation and Maintenance – 5 to 6 hours

In Development

Coming Soon!



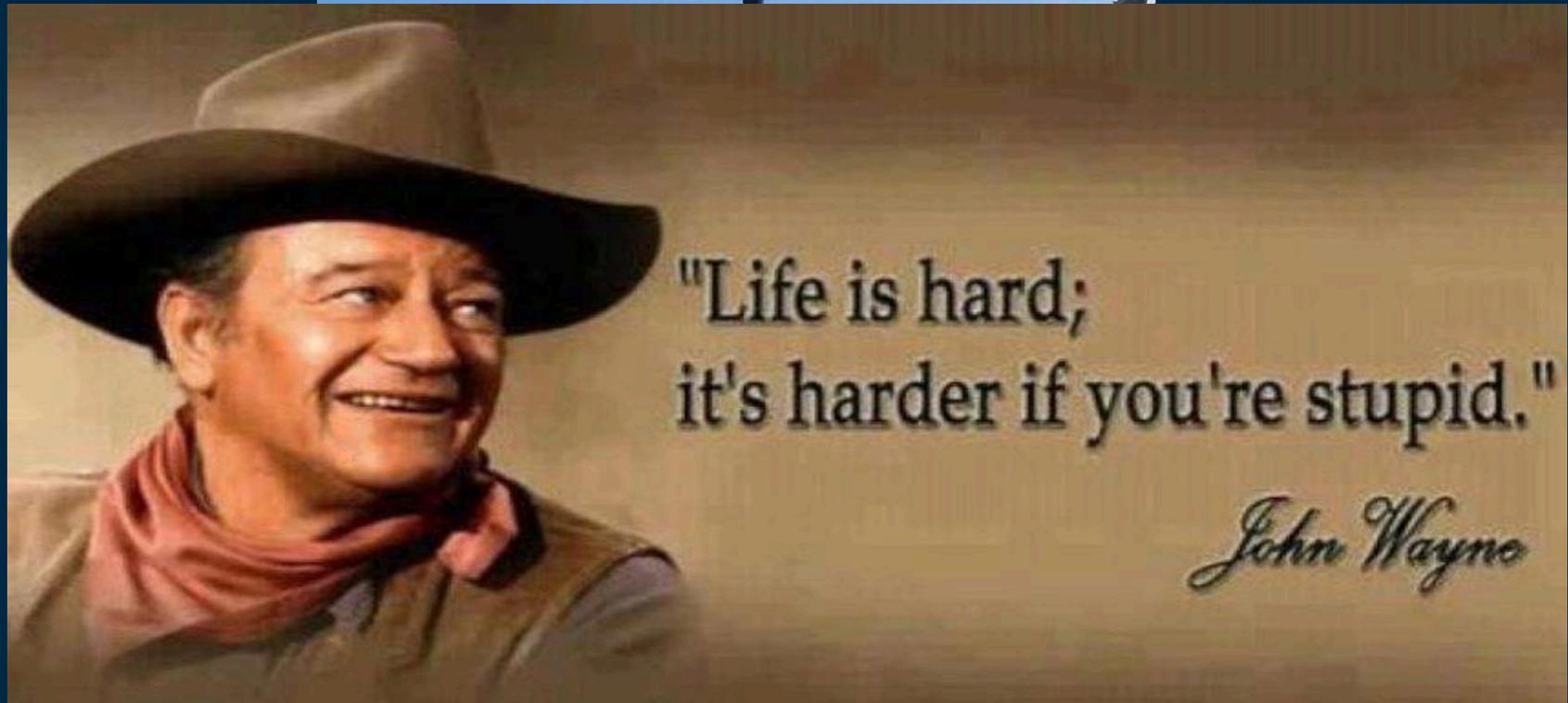
- Math Basics (4 hours)
- Best Practices for High Friction Surfaces (3 hours)
- Erosion and Sediment Control (3 hours)
- Critical Path Method Scheduling (1 hour)
- Managing CPM Schedules (2 hours)
- AASHTO T 209 (2 hours)
- AASHTO T 283 (2 hours)
- Preventative Maintenance Concepts for State Equipment Fleet Operations (3 hours)

In Development

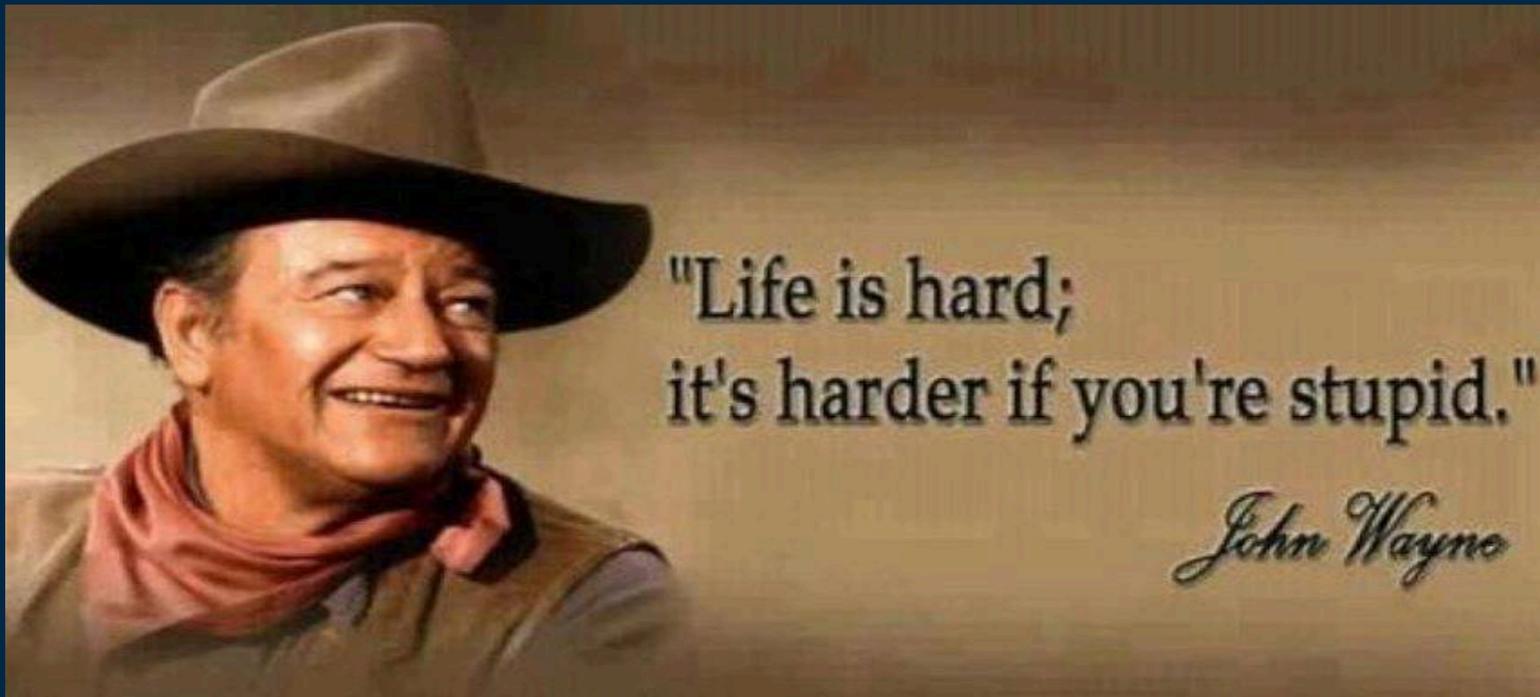
Coming Soon!



- Inspection of Concrete Pavement Repair, Jointed and CRCP
- Compaction Technician
- Pavement Markings
- Warm Mix Asphalt (Add-on to HMA Paving Inspection)
- Intelligent Compaction
- Inspection Orientation
- Bridge Maintenance and Preservation
- Micropile
- Shop Drawings
- Corrosion
- Quality System



Questions



Thank you!

TC3 Website

<http://tc3.transportation.org/>

TC3 Training Store

https://training.transportation.org/browse_bookstore.aspx



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