**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): \_\_\_\_NDDOT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

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| --- | --- |
| **Transportation Pooled Fund Program Project #***(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*TPF 5(333)  | **Transportation Pooled Fund Program - Report Period:**✓Quarter 1 (January 1 – March 31)□Quarter 2 (April 1 – June 30)□Quarter 3 (July 1 – September 30)□Quarter 4 (October 1 – December 31) |
| **Project Title:**Transportation Learning Network |
| **Name of Project Manager(s):**Clayton Schumaker | **Phone Number:**701-328-6906 | **E-Mail**cschumaker@nd.gov |
| **Lead Agency Project ID:**TPF 5(333) | **Other Project ID (i.e., contract #):**17-314-0800 | **Project Start Date:**10/1/2015 (New Federal ID) |
| **Original Project End Date:** | **Current Project End Date:**9/30/2020 | **Number of Extensions:**0 |

Project schedule status:

✓On schedule □ On revised schedule □ Ahead of schedule □ Behind schedule

Overall Project Statistics:

|  |  |  |
| --- | --- | --- |
|  **Total Project Budget** |  **Total Cost to Date for Project** |  **Percentage of Work**  **Completed to Date** |
|  |  | NA |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
|  **Total Project Expenses**  **and Percentage This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** |  **Total Percentage of**  **Time Used to Date** |
|  | $120,042.28 | NA |

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| --- |
| **Project Description**:The Transportation Learning Network (TLN) was developed to serve the transportation interests of the region and complements the efforts of its various members. It provides access to information and expertise not readily available to transportation professionals in the region. TLN identifies schedules, distributes and warehouses technology transfer for its member state DOTs.**Vision:** To excel on a national basis as a premier transportation technology transfer organization that serves as a model for other states. **Mission:** TLN provides quality and cost-effective customer-driven technology transfer utilizing alternative platforms that meet the needs of the state, county, city, tribal and private transportation professionals. |

Staff develop a list of technology transfer presentations based on priorities determined by the 4-state members of the Transportation Learning Network; topics are researched, descriptions written, presenters identified, negotiate presenter contracts and schedule presentations.

There are monthly meetings of the programming committee consisting of members from the 4-state DOTs. The committee approves identified topics and TLN staff move forward with announcing the events and putting into place a registration process.

The majority of presentations occur between October and April due to the construction season in the 4-states served by this program. During summer months, the staff and program committee members identify and prioritize technology transfer topics.

During this reporting period, there were live webinars and video conference presentations; as well as recorded presentations and online modules. Following are summaries.

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| --- | --- | --- | --- |
| **Presentation Title** | **Delivery Method** | **Date** | **# Attended** |

|  |  |  |  |
| --- | --- | --- | --- |
| Emotional Intelligence: Foundational for your Future (Part 1) | webinar | 1/8/2020 | 48 |
| Emotional Intelligence: Foundational for your Future (Part 2)  | webinar | 1/14/2020 | 40 |
| CDL Updates | webinar | 1/21/2020 | 156 |
| Hiring Smart: Staffing for Optimum Performance  | video conf | 1/22/2020 | 10 |
| Managing Yourself in Time | video conf | 1/23/2020 | 33 |
| Local Rural Intersection Conflict Warning Systems (RICWS)  | webinar | 1/28/2020 | 40 |
| It's Not about the Drones: Organizational Considerations for UAS | webinar | 1/29/2020 | 63 |
| Emotional Intelligence: Foundational for your Future (Part 3)  | webinar | 1/31/2020 | 31 |
| PE Exam Preparation for Civil Engineers | webinar | Feb-20 | 19 |
| ATSSA Traffic Control Technician  | video conf | 2/5/2020 | 114 |

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| --- | --- | --- | --- |
| ATSSA Minimizing Worker Exposure in Highway Work Zones Through the Use of Positive Protection and Other Strategies | video conf | 2/6-7/20 | 64 |
| Reducing Roadway Departure Crashes Workshop  | video conf | 2/11/2020 | 42 |
| Designing, Building, and Maintaining Compliant Curb Ramps  | video conf | 2/12/2020 | 156 |
| Applying ADA in Temporary Traffic Control - Building Accessible and Detectable Work Zones  | video conf | 2/12/2020 | 133 |
| Local Road Safety Plans  | webinar | 2/18/2020 | 26 |
| Maintaining a Safer Roadway  | webinar | 2/18/2020 | 64 |
| Pipe Repair Options  | video conf | 2/19/2020 | 34 |
| Public Speaking - How to Plan, Design, and Deliver a Presentation  | video conf | 2/26/2020 | 85 |
| MPC 18-356 Implementation of Aerial LiDAR Technology to Update Highway Feature Inventory  | webinar | 3/4/2020 | 17 |
| Controlling Silica Dust - New Standards and Strategies for Compliance  | video conf | 3/11/2020 | 132 |
| Work Zone Training Plan  | webinar | 3/24/2020 | 206 |
| Working From Home | webinar | 3/24/2020 | 366 |
| The First Three Rules of Construction: Document, Document, Document!  | webinar | 3/31/2020 | 219 |

**ONLINE MODULES**

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| **Title # COMPLETED** |
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| --- | --- |
| ATSSA: Work Zone Safety Performance Measures | 1 |
| Bridge Construction Inspection: Heavy Equipment | 4 |
| Handling and Storage of Reinforcing Steel | 1 |
| Introduction to NDDOT Construction Automated Records System (CARS) | 7 |
| Materials Testing: Introduction to the Soil-Moisture Density Relationship | 3 |
| Materials Testing: Lightweight Pieces in Aggregate | 1 |
| Materials Testing: Microwave and Oven Methods of Drying Soils | 2 |
| Materials Testing: Proctor Test | 9 |
| Materials Testing: Proctor Test Short Version | 1 |
| Materials Testing: Reducing Aggregate Samples | 4 |
| Materials Testing: Rubber-Balloon Test | 5 |
| Materials Testing: Sand Cone Test | 2 |
| Materials Testing: Sieve Analysis of Fine and Coarse Aggregates | 3 |
| Materials Testing: Speedy Moisture Test | 4 |
| Materials Testing: Wash Test | 4 |
| Personal Protective Equipment | 1 |
| Road Safety 365: A Safety Course for Local Governments – Module 1: The Need for Road Safety | 1 |
| Seal Coat Module 1: Pavement Preservation, Handbook, Design, & Pay Items | 6 |
| Seal Coat Module 2: Aggregate Requirements & Binders | 2 |
| Seal Coat Module 3: Construction Details, Pavement Markings, Fog Sealing, & What's New | 1 |
| TC3 3D Engineered Models for Construction Series: Introduction to 3D Engineered Models for Highway Transportation (Module 1) | 3 |
| TC3 3D Engineered Models for Construction Series: Surveying and 3D Engineered Models (Module 2) | 2 |
| TC3 3D Engineered Models for Construction Series: 3D Engineered Models in Highway Design (Module 3) | 2 |
| TC3 3D Engineered Models for Construction Series: Applications of 3D Engineered Models in Highway Construction and Quality Assurance (Module 4) | 2 |
| TC3 AASHTO Designation: R60 | 7 |
| TC3 AASHTO Designation: T119 | 6 |
| TC3 AASHTO Designation: T121 | 7 |
| TC3 AASHTO Designation: T152 | 7 |
| TC3 AASHTO Designation: T166 | 2 |
| TC3 AASHTO Designation: T209 | 5 |
| TC3 AASHTO Designation: T23 | 9 |
| TC3 AASHTO Designation: T283 | 4 |
| TC3 AASHTO Designation: T30 | 3 |
| TC3 AASHTO Designation: T309 | 7 |
| TC3 AASHTO T 308: Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method | 5 |
| TC3 AASHTO T 312: Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor | 4 |
| TC3 Advanced Self-Consolidating Concrete | 3 |
| TC3 Aggregate Sampling Basics | 10 |
| TC3 Basic Construction Surveying | 2 |
| TC3 Basic Materials for Highway Structure Construction: Introduction | 2 |
| TC3 Basic Materials for Highway Structure Construction: Module 1 | 2 |
| TC3 Basic Materials for Highway Structure Construction: Module 2 | 2 |
| TC3 Basic Materials for Highway Structure Construction: Module 3 | 2 |
| TC3 Basics of Concrete | 4 |
| TC3 Benchmarking and Best Practices for State Equipment Fleet Management: Benchmarking | 1 |
| TC3 Benchmarking and Best Practices for State Equipment Fleet Management: Best Practices | 1 |
| TC3 Benchmarking and Best Practices for State Equipment Fleet Management: Performance Metrics | 1 |
| TC3 Benchmarking and Best Practices for State Equipment Fleet Management: Performance Mgmt | 2 |
| TC3 Best Practices for High Friction Surfaces: Module 1 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 2 | 1 |
| TC3 Bloodborne Pathogens | 2 |
| TC3 Bolted Connections: Introduction | 2 |
| TC3 Bolted Connections: Module 1 / Topic 1 | 2 |
| TC3 Bolted Connections: Module 1 / Topic 2 | 2 |
| TC3 Bolted Connections: Module 1 / Topic 3 | 2 |
| TC3 Bolted Connections: Module 1 / Topic 4 | 2 |
| TC3 Bolted Connections: Module 2 / Topic 1 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 2 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 3 | 1 |
| TC3 Bolted Connections: Module 2 / Topic 4 | 1 |
| TC3 Bridge Cleaning | 4 |
| TC3 Bridge Construction Inspection Safety | 3 |
| TC3 Bridge Preservation Guide: Module 1 | 4 |
| TC3 Bridge Preservation Guide: Module 2 | 3 |
| TC3 CDL Series: Air Brakes Pt 1 | 1 |
| TC3 CDL Series: Air Brakes Pt 2 | 1 |
| TC3 CDL Series: Pre-Trip Inspection (Module 2) | 1 |
| TC3 Change Orders, Claims, and Dispute Resolutions | 4 |
| TC3 Chip Seal Best Practices: Introduction | 1 |
| TC3 Chip Seal Best Practices: Module 1 | 4 |
| TC3 Chip Seal Best Practices: Module 2 | 2 |
| TC3 Chip Seal Best Practices: Module 3 | 2 |
| TC3 Chip Seal Best Practices: Module 4 | 2 |
| TC3 Chip Seal Best Practices: Module 5 | 2 |
| TC3 Chip Seal Best Practices: Module 6 | 2 |
| TC3 Chip Seal Best Practices: Construction Practices | 1 |
| TC3 Clean Water Act Compliance During Construction (Section 404): Module 1 | 3 |
| TC3 Clean Water Act Compliance During Construction (Section 404): Module 2 | 2 |
| TC3 Compaction Technician Basics: Testing | 1 |
| TC3 Concrete Series: Basics of Cement Hydration | 2 |
| TC3 Concrete Series: Construction of Concrete Pavements | 2 |
| TC3 Concrete Series: Design of Pavement | 1 |
| TC3 Concrete Series: Early Age Cracking | 3 |
| TC3 Concrete Series: Fresh Properties | 3 |
| TC3 Concrete Series: Fundamentals of Materials Used for Concrete Pavements | 3 |
| TC3 Concrete Series: Hardened Concrete Properties - Durability | 3 |
| TC3 Concrete Series: Incompatibility in Concrete Pavement Systems | 3 |
| TC3 Concrete Series: Mix Design Principles | 4 |
| TC3 Concrete Series: QCQA for Concrete Pavements | 3 |
| TC3 Concrete Series: Troubleshooting for Concrete Pavements | 4 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 1) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 2) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 3) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 4) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 5) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 6) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 7) | 2 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 1) | 3 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 2) | 3 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 3) | 3 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 4) | 3 |
| TC3 Construction Inspection of Structures Series: Subsurface (Module 1) | 2 |
| TC3 Construction Inspection of Structures Series: Subsurface (Module 2) | 2 |
| TC3 Construction Inspection of Structures Series: Subsurface (Module 3) | 2 |
| TC3 Construction Inspection of Structures Series: Subsurface (Module 4) | 2 |
| TC3 Construction Inspection of Structures Series: Subsurface (Module 5) | 2 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 1) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 2) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 3) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 4) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 5) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 6) | 3 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 7) | 3 |
| TC3 Construction Inspector Orientation (Module 1) | 2 |
| TC3 Construction Inspector Orientation (Module 2) | 1 |
| TC3 Construction Inspector Orientation (Module 3) | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 1 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 2 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 3 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 4 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 5 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 6 | 3 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 7 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 8 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 9 | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 10 | 2 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 1: Preventing) | 3 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 2: Sawing) | 3 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 3: Jt Sealing) | 4 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 1) | 3 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 2) | 1 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 3) | 1 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 4) | 2 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 5) | 2 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 6) | 2 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 7) | 2 |
| TC3 Construction of PCC Pavement Series: Production (Module 1) | 3 |
| TC3 Construction of PCC Pavement Series: Production (Module 2) | 3 |
| TC3 Construction of PCC Pavement Series: Production (Module 3) | 3 |
| TC3 Construction of PCC Pavement Series: Production (Module 4) | 2 |
| TC3 Construction of PCC Pavement Series: Production (Module 5) | 2 |
| TC3 Construction of PCC Pavement Series: Production (Module 6) | 2 |
| TC3 Construction Safety: Electrical Safety | 2 |
| TC3 Construction Safety: Fall Protection | 3 |
| TC3 Construction Safety: Personal Protective Equipment (PPE) | 3 |
| TC3 Construction Safety: Recognition and Avoidance of Unsafe Conditions | 1 |
| TC3 Construction Safety: Scaffolding Safety | 3 |
| TC3 Construction Stormwater Field Guide Training: Module 1 | 3 |
| TC3 Construction Stormwater Field Guide Training: Module 2 | 3 |
| TC3 Construction Stormwater Field Guide Training: Module 3 | 3 |
| TC3 Construction Stormwater Field Guide Training: Module 4 | 3 |
| TC3 Construction Stormwater Field Guide Training: Module 5 | 3 |
| TC3 Corrosion of Structures: Module 1 | 3 |
| TC3 Corrosion of Structures: Module 2 | 3 |
| TC3 Corrosion of Structures: Module 3 | 3 |
| TC3 Corrosion of Structures: Module 4 | 3 |
| TC3 Critical Path Method (CPM) Scheduling | 3 |
| TC3 Drilled Shaft Inspector Tutorial: Introduction | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 1 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 2 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 3 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 4 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 5 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 6 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 7 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 8 | 2 |
| TC3 Drilled Shaft Inspector Tutorial: Module 9 | 2 |
| TC3 Earthwork Series: Earth Materials as Engineering Materials | 5 |
| TC3 Earthwork Series: Excavation (Introduction) | 7 |
| TC3 Earthwork Series: Excavation (Module 1) | 7 |
| TC3 Earthwork Series: Excavation (Module 2) | 7 |
| TC3 Earthwork Series: Excavation (Module 3) | 7 |
| TC3 Earthwork Series: Excavation (Module 4) | 7 |
| TC3 Earthwork Series: Fill Placement (Introduction) | 6 |
| TC3 Earthwork Series: Fill Placement (Module 1) | 5 |
| TC3 Earthwork Series: Fill Placement (Module 2) | 3 |
| TC3 Earthwork Series: Fill Placement (Module 3) | 4 |
| TC3 Earthwork Series: Fill Placement (Module 4) | 5 |
| TC3 Earthwork Series: Grades and Grading (Module 1) | 3 |
| TC3 Earthwork Series: Grades and Grading (Module 2) | 1 |
| TC3 Earthwork Series: Site Preparation | 5 |
| TC3 Environmental Predecessor Series: Air Quality | 3 |
| TC3 Environmental Predecessor Series: Archaeology | 2 |
| TC3 Environmental Predecessor Series: Community Impact Assessment | 3 |
| TC3 Environmental Predecessor Series: Noise | 3 |
| TC3 Environmental Triggers Series: Air Quality Impacts | 2 |
| TC3 Environmental Triggers Series: Archaeological | 1 |
| TC3 Environmental Triggers Series: Biological Resources | 1 |
| TC3 Environmental Triggers Series: Community Impacts | 2 |
| TC3 Environmental Triggers Series: Hazardous Materials | 2 |
| TC3 Environmental Triggers Series: Noise Assessment | 2 |
| TC3 Environmental Triggers Series: Water Resources | 2 |
| TC3 Erosion & Sediment Control: Module 1 | 1 |
| TC3 Erosion & Sediment Control: Module 2 | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Basic Concepts | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Determine Condition | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Identification | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Long Term Strategies | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Strategic Operations | 2 |
| TC3 Establishing Core Equipment Complements and the Optimal Sizing of State Equipment Fleets: Understanding Agency | 2 |
| TC3 Ethics Awareness for Engineers: Code of Ethics | 3 |
| TC3 Ethics Awareness for Engineers: Conflicts of Ethics | 4 |
| TC3 Ethics Awareness for Engineers: Ethics and Safety | 3 |
| TC3 Ethics Awareness for Engineers: Fraud | 4 |
| TC3 Ethics Awareness for Engineers: Impact of Ethics | 4 |
| TC3 Ethics in the Transportation Industry | 4 |
| TC3 Field Environmental Emergency Compliance | 2 |
| TC3 Flagger Training | 2 |
| TC3 Flexible Pavement Preservation Treatment Series: Chip Seals | 5 |
| TC3 Flexible Pavement Preservation Treatment Series: Crack Sealing and Filling | 3 |
| TC3 Flexible Pavement Preservation Treatment Series: Fog Seals | 5 |
| TC3 Flexible Pavement Preservation Treatment Series: Introduction to Pavement Preservation | 3 |
| TC3 Flexible Pavement Preservation Treatment Series: Localized Pavement Repairs | 4 |
| TC3 Flexible Pavement Preservation Treatment Series: Materials | 4 |
| TC3 Flexible Pavement Preservation Treatment Series: Micro-Surfacing | 2 |
| TC3 Flexible Pavement Preservation Treatment Series: Selecting the Right Treatment | 3 |
| TC3 Flexible Pavement Preservation Treatment Series: Slurry Seals | 4 |
| TC3 Flexible Pavement Preservation Treatment Series: Thin Functional HMA Overlay | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Ultra-Thin HMA Bonded Wearing Course | 1 |
| TC3 Full Depth Reclamation (FDR): Module 1 | 1 |
| TC3 Full Depth Reclamation (FDR): Module 2 | 1 |
| TC3 Full Depth Reclamation (FDR): Module 3 | 1 |
| TC3 Full Depth Reclamation (FDR): Module 4 | 1 |
| TC3 Fundamentals of Geosynthetic Materials: Module 1 | 3 |
| TC3 Fundamentals of Geosynthetic Materials: Module 2 | 3 |
| TC3 Fundamentals of Geosynthetic Materials: Module 3 | 3 |
| TC3 Fundamentals of Geosynthetic Materials: Module 4 | 3 |
| TC3 GPS Technology | 6 |
| TC3 Guardrail Series: Guardrail Basics | 3 |
| TC3 Guardrail Series: Installation and Inspection of New Guardrails (Module 1) | 1 |
| TC3 Guardrail Series: Installation and Inspection of New Guardrails (Module 2) | 1 |
| TC3 Guardrail Series: Maintenance and Repair (Module 1) | 1 |
| TC3 Guardrail Series: Maintenance and Repair (Module 2) | 1 |
| TC3 High Visibility Garments | 1 |
| TC3 HMA Paving Field Inspection | 3 |
| TC3 HMMS: Conducting Field Interviews | 1 |
| TC3 HMMS: Defining Site Assessments | 1 |
| TC3 HMMS: Land Use Concerns (Module 1) | 1 |
| TC3 HMMS: Land Use Concerns (Module 2) | 1 |
| TC3 HMMS: Preparing NEPA Documentation (Module 1) | 1 |
| TC3 HMMS: Preparing NEPA Documentation (Module 2) | 1 |
| TC3 HMMS: Preparing NEPA Documentation (Module 3) | 1 |
| TC3 HMMS: Preparing Recommendations and Action Plans | 1 |
| TC3 HMMS: Regulatory and Legal Issues | 1 |
| TC3 HMMS: Using Regulatory Agency Databases | 1 |
| TC3 HMMS: Completing the ISA Report Scoping Process | 1 |
| TC3 Hot In Place Recycling (HIR): Module 1 | 1 |
| TC3 Hot In Place Recycling (HIR): Module 2 | 1 |
| TC3 Hot In Place Recycling (HIR): Module 3 | 1 |
| TC3 Improving the Daily Diary | 6 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 1) | 2 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 2) | 2 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 3) | 2 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 4) | 2 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 5) | 2 |
| TC3 Inspection of Concrete Pavement Repair, Jointed and CRCP (Module 6) | 2 |
| TC3 Inspector Training for Cold In Place Recycling (CIR) (Introduction) | 2 |
| TC3 Inspector Training for Cold In Place Recycling (CIR) (Module 1) | 2 |
| TC3 Inspector Training for Cold In Place Recycling (CIR) (Module 2) | 2 |
| TC3 Inspector Training for Cold In Place Recycling (CIR) (Module 3) | 2 |
| TC3 Instructor Preparation (Introduction) | 1 |
| TC3 Instructor Preparation (Improving Skills) | 1 |
| TC3 Instructor Preparation (Working With) | 1 |
| TC3 Intelligent Compaction (Introduction) | 7 |
| TC3 Intelligent Compaction (Construction) | 7 |
| TC3 Intelligent Compaction (Data Analysis) | 7 |
| TC3 Intelligent Compaction (Inspection) | 7 |
| TC3 Intelligent Compaction (Quality Control) | 7 |
| TC3 Introduction to e-Construction | 3 |
| TC3 Job Hazard Analysis | 1 |
| TC3 Maintenance and Tort Liability | 1 |
| TC3 Maintenance of Drainage Features for Safety | 2 |
| TC3 Maintenance of Traffic for Supervisors (All Modules) | 1 |
| TC3 Maintenance of Traffic for Technicians (All Modules) | 1 |
| TC3 Maintenance Stormwater Field Guide Training (Module 1: Intro) | 1 |
| TC3 Maintenance Stormwater Field Guide Training (Module 2: Roadside) | 1 |
| TC3 Maintenance Stormwater Field Guide Training (Module 3: Facilities) | 1 |
| TC3 Maintenance Training Series: Base and Subbase Stabilization and Repair | 1 |
| TC3 Maintenance Training Series: Basics of Work Zone Traffic Control | 4 |
| TC3 Maintenance Training Series: Cultural and Historic Preservation | 1 |
| TC3 Materials Testing: Reducing Aggregate Sampling | 3 |
| TC3 Math Basics for Construction Inspectors | 2 |
| TC3 Math Module | 3 |
| TC3 NEPA Overview Series: Determining Transportation Needs | 1 |
| TC3 PCC Pavement Preservation Series: Concrete Overlays | 1 |
| TC3 PCC Pavement Preservation Series: Concrete Pavement Evaluation | 1 |
| TC3 PCC Pavement Preservation Series: Diamond Grinding and Grooving | 1 |
| TC3 PCC Pavement Preservation Series: Full-Depth Repairs | 1 |
| TC3 PCC Pavement Preservation Series: Joint Resealing and Crack Sealing | 1 |
| TC3 PCC Pavement Preservation Series: Preventive Maintenance and Pavement Preservation Concepts | 1 |
| TC3 PCC Pavement Preservation Series: Slab Stabilization and Slab Jacking | 1 |
| TC3 Personal Protective Equipment (PPE) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Introduction) | 2 |
| TC3 Pipe Installation, Inspection, and Quality (Module 1) | 2 |
| TC3 Pipe Installation, Inspection, and Quality (Module 2) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Module 3) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Module 4) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Module 5) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Module 6) | 1 |
| TC3 Pipe Installation, Inspection, and Quality (Module 7) | 1 |
| TC3 Plan Reading: Bridge Plans | 3 |
| TC3 Plan Reading: County Plans | 2 |
| TC3 Plan Reading: Erosion and Sediment Control Plans | 1 |
| TC3 Plan Reading: Grading Plans | 1 |
| TC3 Plan Reading: Highway Plan Reading Basics | 4 |
| TC3 Plan Reading: Right-of-Way Plans | 2 |
| TC3 Plan Reading: Traffic Control Plans | 3 |
| TC3 Portland Cement Concrete Paving Inspection (Introduction) | 2 |
| TC3 Portland Cement Concrete Paving Inspection (Module 1) | 2 |
| TC3 Portland Cement Concrete Paving Inspection (Module 2) | 2 |
| TC3 Portland Cement Concrete Paving Inspection (Module 3) | 2 |
| TC3 Portland Cement Concrete Paving Inspection (Module 4) | 1 |
| TC3 QA: Collecting Data Through Sampling | 6 |
| TC3 QA: Frequency Tables and Histograms | 6 |
| TC3 QA: Introduction to Quality Assurance Programs | 7 |
| TC3 QA: Introduction to Quality Assurance Specifications | 6 |
| TC3 QA: Introduction to Variability | 7 |
| TC3 Revegetation During Construction | 1 |
| TC3 Roller Compacted Concrete Pavements | 6 |
| TC3 Safety Orientation (Module 1) | 1 |
| TC3 Safety Orientation (Module 2) | 1 |
| TC3 Shop Drawings (Introduction) | 2 |
| TC3 Shop Drawings (Concrete Structure) | 1 |
| TC3 Shop Drawings (Steel Structure) | 2 |
| TC3 Superpave for Construction (Module 1) | 1 |
| TC3 Superpave for Construction (Module 2) | 1 |
| TC3 Superpave Mix Design Process and Analysis (Module 1) | 2 |
| TC3 Superpave Mix Design Process and Analysis (Module 2) | 1 |
| TC3 Testing Self-Consolidating Concrete | 2 |
| TC3 Understanding Materials Testing for Inspectors (Introduction) | 1 |
| TC3 Understanding Materials Testing for Inspectors (Soil/Aggregates) | 2 |
|  |  |
| **TOTAL** | **849** |

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| **Significant Results:**Identifying and delivering technology transfer needs of the DOTs in Montana, North Dakota, South Dakota and Wyoming. Live presentations are broadcast through video conferencing or webinars. The majority of these presentations are recorded and available for playback on the TLN learning management system. Along with the recordings, there are self-paced modules available 24/7. This program can reach many individuals to bring significant opportunities to increase knowledge without the need to travel great distances.  |
| **Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that** **might affect the completion of the project within the time, scope and fiscal constraints set forth in the** **agreement, along with recommended solutions to those problems).**None encountered. |