**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** |
|  | $160,527.18 | NA |

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| **Project Description**:  The Transportation Learning Network (TLN) serves 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 to meet the needs of 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 (TLN). 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. The summer months are when the program staff and committee members identify and prioritize technology transfer topics.

In May of 2019, the Executive Committee comprised of representatives from each participating state met in Casper, Wyoming. The Committee discussed the progress of the program, agreed to continue for another year (July 2019 – June 2020) and approved a budget.

The following is a list of webinars and video conference presentations offered during this reporting period. In addition to live presentations, there are over 100 online self-paced modules available. Full descriptions are available on the TLN website at [www.translearning.org](http://www.translearning.org).

**PRESENTATIONS APRIL THROUGH JUNE 2019**

|  |  |  |  |
| --- | --- | --- | --- |
| **Title** | **Delivery Method** | **Date** | **# Attended** |
| Asphalt Density | video conf | 4/3/2019 | 47 |
| Perpetual Pavement Concepts | video conf | 4/4/2019 | 24 |
| Paperwork & Reporting, SWPPP Info/updates | webinar | 4/4/2019 | 10 |
| Technical & Business Writing in a DOT: Word Types & Basic Grammar Rules (Part 1 of 5) | webinar | 4/5/2019 | 44 |
| Working with the Media & How to Develop Good Public Relation Practices | video conf | 4/9/2019 | 96 |
| Heavy Truck Preventative Maintenance | video conf | 4/9/2019 | 97 |
| Inspection & Maintenance of Ancillary Highway Structures | video conf | 4/10/2019 | 29 |
| Design & Construction of Full-Depth Portland Cement Reclaimed Bases | webinar | 4/10/2019 | 35 |
| Load Securement (with CDL Briefing) | video conf | 4/11/2019 | 107 |
| Technical & Business Writing in a DOT: Problem Words & Phrases (Part 2 of 5) | webinar | 4/12/2019 | 17 |
| Handling of Hazardous Materials | webinar | 4/18/2019 | 3 |
| Maintenance Welding Basics, Safety, & Repair Techniques | video conf | 4/23/2019 | 55 |
| Soil Nailing for Slope Stability | video conf | 4/24/2019 | 19 |
| Retention & Detention Ponds | webinar | 4/25/2019 | 14 |
| Culvert Hydraulics | video conf | 4/25/2019 | 50 |
| Technical & Business Writing in a DOT: Sentences, Paragraphs & Punctuation (Part 3 of 5) | webinar | 4/26/2019 | 24 |
| Technical & Business Writing in a DOT: Documents & Style (Part 4 of 5) | webinar | 5/3/2019 | 18 |
| Technical & Business Writing in a DOT: Documents & Style (Part 5 of 5) | webinar | 5/10/2019 | 24 |
| Asphalt Recycling: A National Perspective with MnROAD Findings | webinar | 5/10/2019 | 24 |
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**ONLINE MODULES APRIL THROUGH JUNE 2019**

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| --- | --- |
| **Title** | **# completed** |
| ATSSA: Safe Installation and Removal of Temporary Traffic Control Devices | 1 |
| ATSSA: Work Zone Safety Performance Measures | 1 |
| Bridge Construction Inspection: Heavy Equipment | 1 |
| Bridge Site Safety Worker Orientation | 1 |
| Introduction to NDDOT Construction Automated Records System (CARS) | 1 |
| Materials Testing: Introduction to the Soil-Moisture Density Relationship | 1 |
| Materials Testing: Proctor Test Short Version | 1 |
| Materials Testing: Rubber-Balloon Test | 2 |
| Materials Testing: Sand Cone Test | 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 | 1 |
| TC3 3D Engineered Models for Construction Series: Surveying and 3D Engineered  Models (Module 2) | 1 |
| TC3 3D Engineered Models for Construction Series: 3D Engineered Models in  Highway Design (Module 3) | 1 |
| TC3 3D Engineered Models for Construction Series: Applications of 3D Engineered  Models in Highway Construction and Quality Assurance (Module 4) | 1 |
| TC3 AASHTO Designation: T209 | 1 |
| TC3 AASHTO T 308: Determining the Asphalt Binder Content of Hot Mix Asphalt  (HMA) by the Ignition Method | 1 |
| TC3 Advanced Self-Consolidating Concrete | 1 |
| TC3 Aggregate Sampling Basics | 3 |
| TC3 Basic Construction Surveying: Basic Survey Concept | 1 |
| TC3 Basic Construction Surveying: Intro | 1 |
| TC3 Basic Construction Surveying: Measure & Construct | 1 |
| TC3 Basic Construction Surveying: Survey Mathematics | 2 |
| TC3 Basic Materials for Highway Structure Construction: Introduction | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 1 | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 2 | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 3 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 5 | 1 |
| TC3 Bloodborne Pathogens | 1 |
| TC3 Bolted Connections: Introduction | 1 |
| TC3 Bolted Connections: Module 1 / Topic 1 | 1 |
| TC3 Bolted Connections: Module 1 / Topic 2 | 1 |
| TC3 Bolted Connections: Module 1 / Topic 3 | 1 |
| TC3 Bolted Connections: Module 1 / Topic 4 | 1 |
| 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 Construction Inspection Safety | 1 |
| TC3 CDL Series: Air Brakes (Air Brakes Pt 1) | 1 |
| TC3 CDL Series: Air Brakes (Air Brakes Pt 2) | 1 |
| TC3 CDL Series: General Knowledge (Module 1) | 1 |
| TC3 CDL Series: General Knowledge (Module 2) | 1 |
| TC3 CDL Series: General Knowledge (Module 3) | 1 |
| TC3 CDL Series: Pre-Trip Inspection (Module 1) | 1 |
| TC3 CDL Series: Pre-Trip Inspection (Module 2) | 1 |
| TC3 Change Orders, Claims, and Dispute Resolutions | 1 |
| TC3 Chip Seal Best Practices: Introduction | 2 |
| TC3 Chip Seal Best Practices: Module 1 | 1 |
| TC3 Chip Seal Best Practices: Module 2 | 1 |
| TC3 Chip Seal Best Practices: Module 3 | 1 |
| TC3 Chip Seal Best Practices: Module 4 | 1 |
| TC3 Chip Seal Best Practices: Module 5 | 1 |
| TC3 Clean Water Act Compliance During Construction (Section 404): Module 1 | 2 |
| TC3 Clean Water Act Compliance During Construction (Section 404): Module 2 | 1 |
| TC3 Compaction Technician Basics: Fundamentals | 1 |
| TC3 Compaction Technician Basics: Nuclear Density | 1 |
| 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 | 2 |
| TC3 Concrete Series: Early Age Cracking | 1 |
| TC3 Concrete Series: Fresh Properties | 1 |
| TC3 Concrete Series: Fundamentals of Materials Used for Concrete Pavements | 2 |
| TC3 Concrete Series: Hardened Concrete Properties - Durability | 2 |
| TC3 Concrete Series: Incompatibility in Concrete Pavement Systems | 2 |
| TC3 Concrete Series: Mix Design Principles | 3 |
| TC3 Concrete Series: QCQA for Concrete Pavements | 1 |
| TC3 Concrete Series: Troubleshooting for Concrete Pavements | 2 |
| 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) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance  of Structures (Module 3) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance  of Structures (Module 4) |  |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance  of Structures (Module 5) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance  of Structures (Module 6) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance  of Structures (Module 7) | 1 |
| TC3 Construction Inspector Orientation: Module 1 | 2 |
| TC3 Construction Inspector Orientation: Module 2 | 2 |
| TC3 Construction Inspector Orientation: Module 3 | 2 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 1 | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 2 | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 3 | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 4 | 1 |
| TC3 Construction of Mechanically Stabilized Earth (MSE) Walls: Module 5 | 1 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing  (Module 3) | 1 |
| TC3 Construction of PCC Pavement Series: Paving Process (Module 1) | 1 |
| TC3 Construction of PCC Pavement Series: Production (Module 1) | 1 |
| TC3 Corrosion of Structures: Module 1 | 2 |
| TC3 Corrosion of Structures: Module 2 | 1 |
| TC3 Corrosion of Structures: Module 3 | 1 |
| TC3 Corrosion of Structures: Module 4 | 1 |
| TC3 Drilled Shaft Inspector Tutorial: Introduction | 2 |
| TC3 Earthwork Series: Earth Materials as Engineering Materials | 1 |
| TC3 Earthwork Series: Excavation (Introduction) | 1 |
| TC3 Earthwork Series: Excavation (Module 1) | 1 |
| TC3 Earthwork Series: Excavation (Module 2) | 1 |
| TC3 Earthwork Series: Excavation (Module 3) | 1 |
| TC3 Earthwork Series: Excavation (Module 4) | 1 |
| TC3 Earthwork Series: Fill Placement (Introduction) | 1 |
| TC3 Earthwork Series: Fill Placement (Module 1) | 1 |
| TC3 Earthwork Series: Fill Placement (Module 2) | 1 |
| TC3 Earthwork Series: Fill Placement (Module 3) | 1 |
| TC3 Earthwork Series: Fill Placement (Module 4) | 1 |
| TC3 Earthwork Series: Grades and Grading (Module 1) | 1 |
| TC3 Earthwork Series: Grades and Grading (Module 2) | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Chip Seals | 2 |
| TC3 Flexible Pavement Preservation Treatment Series: Crack Sealing and Filling | 2 |
| TC3 Flexible Pavement Preservation Treatment Series: Fog Seals | 2 |
| TC3 Flexible Pavement Preservation Treatment Series: Introduction to Pavement Preservation | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Localized Pavement Repairs | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Materials | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Micro-Surfacing | 1 |
| TC3 GPS Technology | 1 |
| TC3 Guardrail Series: Guardrail Basics (Module 1) | 2 |
| TC3 Guardrail Series: Guardrail Basics (Module 2) | 2 |
| TC3 Guardrail Series: Guardrail Basics (Module 3) | 2 |
| 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 | 2 |
| TC3 HMA Paving Field Inspection: Module 1 | 1 |
| TC3 HMA Paving Field Inspection: Module 2 | 1 |
| TC3 HMA Paving Field Inspection: Module 3 | 1 |
| TC3 HMA Paving Field Inspection: Module 4 | 1 |
| TC3 HMA Paving Field Inspection: Module 5 | 1 |
| TC3 Improving the Daily Diary | 1 |
| TC3 Job Hazard Analysis | 1 |
| TC3 Maintenance Training Series: Basics of Work Zone Traffic Control | 1 |
| TC3 Maintenance Training Series: Cultural and Historic Preservation | 1 |
| TC3 Maintenance Training Series: Outdoor Advertising | 1 |
| TC3 Maintenance Training Series: Pavement Preservation Program | 1 |
| TC3 Maintenance Training Series: Roadside Vegetation Management | 1 |
| TC3 Maintenance Training Series: Roadway Drainage | 1 |
| TC3 Maintenance Training Series: Shaping and Shoulders | 1 |
| TC3 Maintenance Training Series: Weather-related Operations | 1 |
| TC3 PCC Pavement Preservation Series: Concrete Overlays | 1 |
| TC3 PCC Pavement Preservation Series: Preventive Maintenance and Pavement Preservation Concepts | 1 |
| TC3 PCC Pavement Preservation Series: Retrofitted Edge Drains | 1 |
| TC3 PCC Pavement Preservation Series: Slab Stabilization and Slab Jacking | 2 |
| TC3 PCC Pavement Preservation Series: Strategy Selection | 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 Portland Cement Concrete Paving Inspection: Introduction | 1 |
| TC3 Portland Cement Concrete Paving Inspection: Module 1 | 1 |
| TC3 Portland Cement Concrete Paving Inspection: Module 2 | 1 |
| TC3 Portland Cement Concrete Paving Inspection: Module 3 | 1 |
| TC3 Portland Cement Concrete Paving Inspection: Module 4 | 1 |
| TC3 Recognizing Roadside Weeds | 1 |
| TC3 Revegetation During Construction | 1 |
| TC3 Safe Use of Basic Carpentry Tools: Module 1 | 1 |
| TC3 Safe Use of Basic Carpentry Tools: Module 2 | 1 |
| TC3 Safe Use of Hand and Power Operated Tools | 1 |
| TC3 Superpave for Construction: Module 1 | 3 |
| TC3 Superpave for Construction: Module 2 | 2 |
| TC3 Superpave Mix Design Process and Analysis: Module 1 | 2 |
| TC3 Superpave Mix Design Process and Analysis: Module 2 | 2 |
| TC3 Understanding Materials Testing for Inspectors: Asphalt | 1 |
| TC3 Understanding Materials Testing for Inspectors: Concrete | 1 |
| TC3 Understanding Materials Testing for Inspectors: Introduction | 1 |
| TC3 Understanding Materials Testing for Inspectors: Soil/Aggregates | 1 |
| TC3 Warm Mix Asphalt: Module 1 | 1 |
| TC3 Warm Mix Asphalt: Module 2 | 1 |
| TC3 Warm Mix Asphalt: Module 3 | 1 |
| TC3 Warm Mix Asphalt: Module 4 | 1 |
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| **Significant Results:**  Identifying and delivering technology transfer needs of the DOTs in Montana, North Dakota, South Dakota and Wyoming. The program broadcasts presentations through video conferencing or webinars. In addition, there are over 100 online 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. |