Technical Certification Program (TCP)

2020-2021 Classes and Schedules (9.22.2020)

The evolving COVID-19 situation and heightened individual county risk levels continue to influence the process of scheduling the 2020-2021 TCP classes.

We will provide opportunity for certification classes to meet the needs of the construction industry, however the delivery of those of classes will likely change. It is expected at this time, that classes will include portions of web based/virtual instruction.

Access to technology such as laptops with webcams, iPads, or smart phones will be necessary.

More information will be provided in the next weeks. A class schedule will be posted approximately November 1, 2020 with the first class to begin Mid-January 2021.
2020 Construction Season Update

This document was created to help explain the requirements for individuals requesting new tester certification to work on North Dakota Department of Transportation construction projects during the 2020 Construction Season.

This applies only to individuals that attended aggregate and asphalt testing classes this winter and were not able to complete the performance exam or had registered for one of the classes that were canceled in March or April due to the COVID-19 situation. What is considered “Level 2” or 5-year certification is held by the individual that works in a field lab on an asphalt paving project. (QC/QA)

Temporary certification process for students and new hires is also included.

A formal request must be made for all new certification using the appropriate form.

QC/QA, Aggregate (Level 2)

A. Students Registered for Classes During The 2019-2020 Season
   1. Certify in district, per project
   2. Complete SFN 61825 at least 2 weeks before project start
      List project number and expected start date and submit to dotmaterials@nd.gov
   3. All students need to have completed December 2019 class or
      Students that were registered for the March 2020 class must complete alternative curriculum.
      a. That curriculum includes online training modules NDDOT and TC3 and provides verification print/PDF. (See page 3)
      b. Trainer at agency must hold current certification and signs request form
      c. Signature verifies that student is educated, trained and ready for IA by district
   4. Schedule online meeting with District/Materials division and student(s) to answer questions, communicate priorities and emphasize points such as QA Field Lab Tester Responsibility Checklist.
   5. Written exam – delivery to be determined, possibly web meeting.
   6. District submit documentation to Materials when performance exams completed.
   7. Aggregate and Asphalt Testing certification may transfer to other districts by request.

B. Tester Certification Length
   1. December aggregate and asphalt mix testing class students may request a 5-year cert
   2. March class registered students– 1-year cert, per project (FHWA guidance 3.2020)
   3. Renewals unable to attend April class – 1-year extension (FHWA guidance 3.2020)
   4. Renewals that attended January class – 1-year tester extension on performance exam for tester certification. (FHWA guidance 3.2020)

C. District Independent Assurance Review/Performance Exams
   a. Performance Exam Guidelines found at this link
   Mid-May or start of a project – whichever is earliest
   Please communicate early with the district to allow time to schedule.
D. **Reciprocity**

Reciprocity requests will continue to be processed on a case-by-case basis. Written exam/web exam will be required. Performance exam also required at district.

**Temporary or New Hire (Level 1)**

Submit completed SFN 60649


**New Temporary Certification – Contractor or Consultant New Summer Hires**

Areas allowed: Soils Field, Aggregate Gradation and Coring helper. Individual tests or combination.

Timeline: Assigned project start

Training:

- Online modules
- Employers Train

Written exam – delivery to be determined, verbal, TEAMS meeting are options

District submit documentation to Materials for performance exams to update database.

**Manuals and Other Links**

Field Sampling and Testing Manual

http://www.dot.nd.gov/divisions/materials/testingmanual.htm

ND Standard Specification for Roads and Bridges


Transportation Learning Network (TLN) Learning Management System (LMS)

* (A number of users have had a module not close out as expected when completed. If that happens to you, please notify TLN using the email link on their web page. You should not need to repeat a module to obtain a completed status)

For access to online modules

https://www.translearning.org/resources/

TCP Web Page

http://www.dot.nd.gov/divisions/materials/techniciancertification.htm

**QA (asphalt) Lab Responsibility Checklist**

http://www.dot.nd.gov/divisions/materials/docs/QALabTester.pdf

YouTube Videos of Test Procedures and Gradation Worksheet

https://www.youtube.com/channel/UCpsELE5FYuwvmri0ZZTzU1Q
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<th>Course Title</th>
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<tbody>
<tr>
<td><strong>Aggregate Sampling Basics (1 hr)</strong></td>
<td>Aggregates</td>
<td>T 2</td>
<td>TC3</td>
<td>TLN/TC3</td>
<td>Testing</td>
<td>Agg Test</td>
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<tr>
<td><strong>Reducing Aggregate Samples (1 hr)</strong></td>
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<td>NDDOT</td>
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<tr>
<td><strong>Total Moisture Content of Aggregate, not available in video or module format, review written procedure</strong></td>
<td>Aggregates</td>
<td>T 255</td>
<td>NDDOT</td>
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<td>Testing</td>
<td>Agg Test</td>
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<tr>
<td><strong>Sieve Analysis / Gradation (1 hr)</strong></td>
<td>Aggregates</td>
<td>T 27</td>
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<tr>
<td><strong>Aggregate Wash Test (1 hr)</strong></td>
<td>Aggregates</td>
<td>T 11</td>
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</tr>
<tr>
<td><strong>Lightweight Pieces in Aggregate (1 hr)</strong></td>
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<td><strong>Sand Equivalent - not available in module format, YouTube available</strong></td>
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<td>Agg Test</td>
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<tr>
<td><strong>Fine Aggregate Angularity - not available in module format, YouTube available</strong></td>
<td>Aggregates</td>
<td>T 304</td>
<td>NDDOT</td>
<td>TLN</td>
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<td>Agg Test</td>
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<tr>
<td><strong>Fractured Faces, not available in video or module format, review written procedure</strong></td>
<td>Aggregates</td>
<td>NDDOT 4</td>
<td>NDDOT</td>
<td>--</td>
<td>Testing</td>
<td>Agg Test</td>
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<tr>
<td><strong>Flat and Elongated, not available in video or module format, review written procedure</strong></td>
<td>Aggregates</td>
<td>D 4791</td>
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<td>--</td>
<td>Testing</td>
<td>Agg Test</td>
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<tr>
<td><strong>QA: Collecting Data Through Sampling (1 hr)</strong></td>
<td>Asphalt</td>
<td>TC3</td>
<td>TLN/TC3</td>
<td>General</td>
<td>Asphalt Test</td>
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<tr>
<td><strong>QA: Introduction to Quality Assurance Programs (1 hr)</strong></td>
<td>Asphalt</td>
<td>TC3</td>
<td>TLN/TC3</td>
<td>General</td>
<td>Asphalt Test</td>
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<tr>
<td><strong>NDDOT 5 Sampling Asphalt Mixtures, not available in module format, Video available, review written procedure</strong></td>
<td>Asphalt</td>
<td>NDDOT 5</td>
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<td>Testing</td>
<td>Asphalt Test</td>
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<tr>
<td><strong>Bulk Specific Gravity of Compacted HMA (1 hr)</strong></td>
<td>Asphalt</td>
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<tr>
<td><strong>Preparing &amp; Determining the Density of Asphalt Mixture Specimens by Gyratory (1-2 hr)</strong></td>
<td>Asphalt</td>
<td>T 312</td>
<td>TC3</td>
<td>TLN/TC3</td>
<td>Testing</td>
<td>Asphalt Test</td>
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<tr>
<td><strong>Theoretical Maximum Specific Gravity &amp; Density of Asphalt Mix (1-2 hr)</strong></td>
<td>Asphalt</td>
<td>T 209</td>
<td>TC3</td>
<td>TLN/TC3</td>
<td>Testing</td>
<td>Asphalt Test</td>
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Asphalt Coring, video on YouTube can be referenced. Current method of random locations changed in 2019. Do not take 2 cores in one location. Review written procedure in Spec Book and Field Sampling and Field Sampling and Testing Manual Sections 430

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<tr>
<td>Microwave Oven Drying Soils (1 hr)</td>
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<td>Proctor Test (1 hr)</td>
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<td>T 99 T 180</td>
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<td>Rubber Balloon Test (1 hr)</td>
<td>Soils</td>
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<td>NDDOT</td>
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<td>Testing</td>
<td>Soil Test</td>
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<td>Sand Cone Test (1 hr)</td>
<td>Soils</td>
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<td>NDDOT</td>
<td>TLN</td>
<td>Testing</td>
<td>Soil Test</td>
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<td>Soil Moisture Density Test (Intro) Optional to complete</td>
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<td>NDDOT</td>
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<tr>
<td>Speedy Moisture Test (1 hr)</td>
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<td>T 217</td>
<td>NDDOT</td>
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