



New Mexico Department of Transportation
Associated Contractors of New Mexico



TECHNICIAN TRAINING AND CERTIFICATION PROGRAM

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To: TTCP Certified Personnel and Industry

**From: Brian Legan
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Date: December 11, 2014

Subject: Summary of Program Changes to TTCP Manuals – January 2015

The following provides a guide of significant program changes to the TTCP Manuals as recommended by the **TTCP Technical Committee** and approved by the **TTCP Board of Directors**. Minor word, punctuation corrections or changes may not be reflected in this summary. Updating of AASHTO year-of-review in the title with no changes to the procedure will also not be reflected in this summary. If a test procedure is not listed, no significant changes were made by AASHTO or the Committee. Significant changes are noted in **yellow**.

AGGREGATE

AASHTO T-90, Determining the Plastic Limit and Plasticity Index of Soils

- Add Key Element 11, Precision statement for single operator and multi-laboratory repeatability.

NMDOT FE-1, Flat and Elongated Particles in Coarse Aggregate

- Use NMDOT method FE-1 comparable to ASTM D-4791-95.

SOIL

AASHTO TP-77, Specific Gravity and Absorption of Aggregate by Volumetric Immersion

- Delete from Soil module. TTCP will no longer provide training or certification.

AASHTO T-180-10, Moisture-Density Relations of Soils using a 10-lb. Rammer and 18-in. Drop

- Reference to 2014 (silver) NMDOT Standard Specification book.
- Key Element 5, curing period of heavy-textured clay materials.

AASHTO T-272-10, Family of Curves – One-Point Method

- Modification 1, to comply with 2014 NMDOT Standard Specification book, change all reference from T-99, Method C, to T-180, Method D, for all moisture-density relationships.

HMA/WMA

AASHTO T-30-14, Mechanical Analysis of Extracted Aggregate

- Modification 1, AASHTO uses 4 g/in², however, the metric conversion fluctuates from 6 kg/m² to 7 kg/m² – Table 1 information remains the same.
- Key Element 2 Note, Samples obtained from T-308 should be dried to constant mass as part of that procedure within those standards.
- Key Element 7 Note, limit agitation by mechanical washing equipment to a maximum of 10 minutes.
- Add Table 1, previously reference Table 1 in AASHTO T-27.

AASHTO T-40, Sampling Bituminous Materials

- Key Element 4, add language to clarify minimum sampling frequency as stated in 2014 NMDOT Standard Specification book.

AASHTO T-166, Bulk Specific Gravity (G_{mb}) of Compacted Hot-Mix Asphalt Using Saturated Surface-Dry Specimens

- Add language allowing use of AASHTO T-331, Bulk Specific Gravity (G_{mb}) and Density of Compacted HMA using Automatic Vacuum Sealing Method (CoreLok) and AASHTO PP-75, Vacuum Drying Compacted Asphalt Specimens (CoreDry).

AASHTO T-275-07, Bulk Specific Gravity (G_{mb}) of Compacted HMA using Paraffin-Coated Specimens

- Add T-275 to TTCP HMA module for training purposes only for 2015.

AASHTO T-308, Determining the Asphalt Content of HMA by the Ignition Method

- Key Element 5, Constant mass for moisture definition is clarified.

AASHTO T-312-14, Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyrotory Compactor

- Add Key Element 5 Note, clarify briquette weight/height calculation.

AASHTO T-331-13, Bulk Specific Gravity (G_{mb}) and Density of Compacted HMA using Automatic Vacuum Sealing Method

- Add T-331 to TTCP HMA module for training purposes only for 2015.

AASHTO PP-75-13, Vacuum Drying Compacted Asphalt Specimens

- Add PP-75 to TTCP HMA module for training purposes only for 2015.

CONCRETE FIELD

AASHTO T-22-14, Compressive Strength of Cylindrical Concrete Specimens

- Key Element 3, Add 4-by-8-in. cylinders.

CONCRETE LABORATORY

NMDOT CS-1, Compressive Strength of Cylindrical Concrete Specimens using Unbonded Caps

- Use NMDOT method CS-1 comparable to ASTM C-1231.

NUCLEAR DENSOMETER

AASHTO T-310, In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods

- Add language to cover testing of miscellaneous HMA material using moisture-density gauge for training purposes only.

Should you have any comments or questions, please feel free to contact me at (505) 344-2072, ext. 18, or by e-mail at brian.legan@state.nm.us.