



# **Material Certification School & Material Specification Changes for 2013**

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# Changes for 2013

- **Material Certification Schools (MCS)**
  - Asphalt Field
  - Asphalt Plant
  - Asphalt Mix Design
- **Materials Specification Changes**
  - Section 200
  - Section 211 (PLAID / Anti-strip / Techs)
  - Section 248 (Trial Sections/ Gradation Bands)
  - Section 315
  - Section 317

# MCS Changes

- **Asphalt Field**
  - **2 Levels**
  - **Multiple Choice Exams**
  - **Proficiency check handled through IA process**

# MCS Changes

- **Asphalt Field Level I**
  - **Asphalt Mix placement/Construction methods to achieve quality**
  - **Roller/ Paver operators, Crew Foreman, superintendents, density technicians**
  - **VDOT Construction inspection personnel / Materials QA staff**

# MCS Changes

- **Asphalt Field Level II**
  - **Asphalt Field Level I prerequisite**
  - **Specifications, QC, sampling and testing in the field**
  - **Superintendents, Density Technicians**
  - **VDOT Construction inspection personnel , Materials QA staff**

# MCS Changes

- **Asphalt Plant**
  - **2 Levels**
  - **Multiple Choice Exams**
  - **Proficiency check handled through Contractor's VDOT Certified Mix Design Technician**

# MCS Changes

- **Asphalt Plant Level I**
  - **Asphalt Mix production, equipment, stockpile management and proper sampling techniques**
  - **Loader operators, Plant operators, plant production staff, technicians performing mix sampling**
  - **VDOT Materials QA staff**

# MCS Changes

- **Asphalt Plant Level II**
  - Asphalt Plant Level I prerequisite
  - Specifications, Material QC aspects, sampling and testing in the lab
  - Plant production personnel responsible for sampling and testing for specification compliance
  - VDOT Materials QA staff and Materials Laboratory personnel.



# Targeted Participants

VDOT Role	Field Level I	Field Level II	Plant Level I	Plant Level II	Mix Design
Materials Field QA Technicians	X	X			
Material Plant QA Technicians			X	X	
Material Lab/Mix Technicians			X	X	X
CN Inspectors	X	X			

# Targeted Participants

Contractor Role	Field Level I	Field Level II	Plant Level I	Plant Level II	Mix Design
Field Personnel	X				
Paving Superintendent	X	X			
Field Density Technicians	X	X			
Plant Operations Personnel			X		
Plant Lab Technicians			X	X	
Plant Mix Design Technicians			X	X	X

# Section 200

- ***Asphalt Plant Level I Technician***
  - ***Samples materials***
- ***Asphalt Plant Level II Technician***
  - ***Samples material***
  - ***Capable of conducting any lab tests***

# Section 200 Continued

- ***Asphalt Field Level I Technician***
  - ***Provides quality control of the placement operations of asphalt concrete.***
- ***Asphalt Field Level II Technician***
  - ***Inspects asphalt concrete placement***

# Section 211 – Anti-Stripping Additives

- **211.02 (h)**
  - **Minimum of 0.30 percent by weight of the total asphalt content of mixture**
  - **Additive can not change binder Performance Grade (PG)**

# Section 211 - Technicians

- **211.05 - Testing**
  - Asphalt Plant Technician = Asphalt Plant Level II Technician
- **211.12 (a) – Certification for Plant Operation and Sampling**
  - Amended Asphalt Plant Technician to “Certified Asphalt Level I Technician or a Certified Asphalt Plant Level II Technician”

# Section 211 - PLAID

- **211.03 – Job Mix Formula**
  - JMF submitted through “Producer Lab Analysis and Information Details (PLAID)”
  - Paper copy of JMF along with supporting documentation submitted to Department
- **211.08 – Acceptance**
  - Contractor lab data submitted through PLAID.
  - Data to be submitted within 24hrs after sampling, unless otherwise approved by Materials Engineer.

# Section 248 - SMA

- *Design Ranges*
  - SMA 9.5 adjusted the 3/8 to 65 – 75% and the No. 4 to 25-32.



# Section 248 - SMA

- ***Trial Sections***

- ***Placed in 248 with amendments***
- ***Trial Sections not required for Rollover SMA mixes***
- ***Pay for 2 trial sections***
- ***Defined when a trial section will need to be removed***
  - ***VTM < 1.0 or VTM > 5.0,***
  - ***Failing VCA***
  - ***Density is less than 90.0%***
  - ***Excessive flushing/bleeding***

# Section 315 Asphalt Concrete Pavements

- **315.05 (c) Placing and Finishing**
  - Asphalt Field Level II Technician present during paving operations.
  - Density technician present during all density testing
- **315.05 (e) 1 - Density**
  - Amended language from Asphalt Field Technician to “Asphalt Field Level II Technician”

# Section 317 SMA Concrete Pavements

- **317.09 Trial Section**
  - Language removed and trial sections now covered in Section 248.06.
- **317.10 – Prepaving Conference**
  - Not always required
- **317.11 – Measurement and Payment**
  - 317.11 is renumbered as 317.10
  - Second paragraph is deleted and now covered in Section 248.06.

# VTM for Non Tracking Tack Coat

- **Qualifying test**
- **Field test**
- **White Traffic Marking Tape**
- **Axle count**
- **Visual observation**
- **Tape retained at Elko**



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