

MATERIALS CERTIFICATION SCHOOLS



Registration Process

Online Registration

Enrollment and payment for all personnel in the Materials Certification Schools may be done online through the VDOT University Virtual Campus: MasterCard, Visa, Check, or Money Order only. Non-VDOT personnel may access the Virtual Campus through this link: <https://virtualcampus.vdot.virginia.gov/external>

Traditional Registration

Enrollment may be done by calling (804) 328-3158.

The registration fee is **\$200.00** for each class. Make checks or money orders payable to: **Treasurer of Virginia.**

STUDENTS MUST GIVE 4 BUSINESS DAYS NOTICE TO BE ELIGIBLE FOR FEE REFUND.

Please call (804) 328-3158 or e-mail MaterialsCertification@vdot.virginia.gov with any questions.

RECERTIFICATION

Anyone recertifying must enroll through the Virtual Campus in the recertification course and complete all modules. The online courses will be available in the Virtual Campus beginning January 1, 2013 at: <https://virtualcampus.vdot.virginia.gov/external>

Some recertification courses have a proficiency test requirement. Proficiency tests are scheduled through the Central Office MCS Training Section.

The 2013 recertification requirements must be completed between January 1 and Dec. 31, 2013.

MISCELLANEOUS NOTES

A valid Photo ID must be presented to take all examinations.

Guidelines for the Materials Certification Schools Program are found in Section 115 of the Materials Division's Manual of Instructions. Current revisions to this section may be found at: http://www.virginiadot.org/business/resources/Materials/MCS_Program_Guidelines.pdf

VDOT ensures nondiscrimination and equal employment in all programs and activities in accordance with Title VI and Title VII of the Civil Rights Act of 1964. If you need more information or special assistance for persons with disabilities or limited English proficiency, contact your district Civil Rights Manager or the Title VI Specialist at Central Office (804) 786-2085 (or TTY 711). These certification courses are not introductory programs. It is advised that applicants have some knowledge of road or bridge construction practices. Applicants must have basic reading comprehension skills as well as knowledge of basic math skills including algebra, calculation of percentages and statistics.



Certification Schools

Aggregate Properties

Prerequisite: Central Mix Aggregate Plant Certification

Certification in this field requires attendance in the Asphalt Plant Mix Design School.

Course topics: SuperPave and Stone Matrix Asphalt mix design; materials selection, test methods, and specifications. The class is a combination of classroom and lab instruction. **Calculator and safety shoes required.**

Students must pass a proficiency examination to be certified.

Asphalt Field - Level I

Course topics: Introduction to Hot Mix Asphalt placement, compaction, joints. Intended audience are field personnel that have an impact on quality of asphalt mix placement. Class is suggested for Roller Operators, Paver Operators, Crew Foremen, Superintendents, Density Technicians, Construction Inspectors, Senior Construction Inspectors, Consultant Construction Inspectors, Senior Consultant Construction Inspectors and Materials IA & QA personnel and Permit Inspectors.

Exam required for certification.
No proficiency required.

COURSE IS A PREREQUISITE FOR ASPHALT FIELD LEVEL II

Asphalt Field - Level II

Prerequisite: Asphalt Field School - Level 1

Course topics: Specifications and QC/QA testing. Intended audience are field personnel directly responsible for control, placement and testing of asphalt as well as Construction Inspectors, Senior Construction Inspectors, Consultant Construction Inspectors, Senior Consultant Construction Inspectors, Materials IA & QA personnel and Permit Inspectors. The class will be mandatory for the Paving Superintendents and Density technicians.

Calculator required.

Exam required for certification. Proficiency will be required of the Density Technician. This proficiency will be administered by VDOT as part of IA system based program.

There will be a specification required for Contractor Superintendent and Density Technician to be certified. Consultant Inspectors will be required to have certification by contract.

Asphalt Plant - Level I

Course topics: Introduction to components of asphalt, plant operations, sampling, aggregate proportioning, job mix formulas. Intended audience are plant personnel that have an impact on quality of asphalt mix produced and Materials QA personnel. Class is suggested for loader operators, plant operators and ground crew. Class is mandatory for any plant person that will perform sampling.

Exam required for certification. Proficiency determined by Contractor's designated Mix Design person. This certification will be required by specification for sampling.

COURSE IS A PREREQUISITE FOR ASPHALT PLANT LEVEL II

Asphalt Plant - Level II

Prerequisite: Asphalt Plant School - Level 1

Course topics: Specifications and QC/QA testing. Intended audience are those plant personnel that have an impact on quality of asphalt mix produced and will be performing sampling and testing for acceptance; as well as Materials QA personnel and Materials Lab testing personnel. Class is mandatory for any plant person that will perform Laboratory testing. The class is a combination of classroom and lab instruction. Calculator and safety shoes required.

Exam required for certification. Proficiency determined by Contractor's designated Mix Design person. This certification will be required for contractor personnel performing sampling and testing for acceptance.

COURSE IS A PREREQUISITE FOR ASPHALT PLANT MIX DESIGN

(Certification Schools continued on next page)



Certification Schools

Asphalt Plant Mix Design

Prerequisite: Asphalt Plant School - Level 2

Course topics: SuperPave and Stone Matrix Asphalt mix design; materials selection, test methods and specifications. The class is a combination of classroom and lab instruction. Intended audience are plant lab personnel responsible for control of asphalt mix and laboratory testing at the plant. Class is suggested for experienced plant person with several years of experience. This person will be responsible for asphalt mixture, testing, sampling and certifying lab results to VDOT. This person will also sign off on technicians with level 2 certification. VDOT Materials QA personnel, Materials asphalt lab supervisor and Materials person responsible for mix design approval should attend. **Calculator and safety shoes required.**

Exam required for certification. Proficiency will initially be performed by VDOT; then recertification can be done by Contractor's designated Mix Design person.

There will be a specification required for contractor personnel responsible for mix design submittals and control of asphalt mixtures produced for VDOT.

Central Mix Aggregate Plant

Topics include: testing of aggregates, job mixes, specifications, production sampling and stockpiling, automated data processing forms, pay quantities, titration, Quality Assurance, and Modified Acceptance Programs. Class includes 1/2 day of lab. **Calculator and safety shoes required.**

Students must pass a proficiency examination to be certified.

Concrete Plant

Instruction will cover: components of concrete, ACI Concrete Mix Design, moisture content and batch weight calculations, requirements for inspection of plant and equipment, responsibilities of producer's Quality Control Technician and VDOT Monitor, automated data processing. **Calculator Required.**

Concrete Field

Subject matter includes components of concrete, field inspection and repair of hydraulic cement concrete structures, responsibilities of contractor's technician and VDOT inspector, automated data processing and specifications.

Students must obtain an ACI Field Level I Certification to be certified.

For more information on ACI, go to the VRMCA web site at <http://www.vrmca.com/aci/>

Pavement Marking

This course involves classroom instruction regarding layout and pre-marking, materials, application, quality control testing, visual inspection and troubleshooting of pavement markings and markers.

Students must pass a proficiency examination to be certified.

Slurry Surfacing

Course topics: Materials, equipment, proper placement procedures, specifications. 1/2 day class.

Soils & Aggregate Compaction

Course instruction covers nuclear density testing, sand cone testing, one-point proctor and "Speedy" moisture. Also covered are construction and testing of embankments and subgrade, pipe installation, roller patterns and reports. **Calculator required.**

Students must pass a proficiency examination to be certified. A valid Nuclear Safety Certification is required for this proficiency examination.

Surface Treatment

Course topics: Materials, equipment, proper placement procedures, specifications. 1/2 day class. **Calculator required.**

CERTIFICATIONS ARE INTENDED FOR PERSONNEL PERFORMING MATERIALS ACCEPTANCE SAMPLING/TESTING OR THOSE REQUIRED BY VDOT SPECIFICATION TO BE CERTIFIED.

CLASS ATTENDANCE FOR GENERAL KNOWLEDGE IS PERMITTED.

2013 Schedule

Asphalt Plant Level I School

CO Materials 3/5 - 3/6/2013
Exam last day

Asphalt Plant Level II School

CO Materials 3/6 - 3/8/2013
Exam last day

Asphalt Mix Design School

CO Materials 2/5 - 2/8/2013
Exam last day

Aggregate Properties School

CO Materials 2/5 - 2/8/2013
Exam last day

Asphalt Field Level I School

Richmond 1/22 - 1/23/2013
NOVA 1/29 - 1/30/2013
Fredericksburg 2/19 - 2/20/2013
Hampton Roads 2/26 - 2/27/2013
Salem 3/12 - 3/13/2013
Staunton 4/2 - 4/3/2013
Exam last day

Asphalt Field Level II School

Richmond 1/23 - 1/24/2013
NOVA 1/30 - 1/31/2013
Fredericksburg 2/20 - 2/21/2013
Hampton Roads 2/27 - 2/28/2013
Salem 3/13 - 3/14/2013
Staunton 4/3 - 4/4/2013
Exam last day

Central Mix Aggregate Plant School

Luck Stone - Boscobel Plant 1/15 - 1/17/2013
Exam last day

Concrete Field School

NOVA 1/23 - 1/24/2013
Richmond 2/20 - 2/21/2013
Fredericksburg 2/26 - 2/27/2013
Staunton 3/12 - 3/13/2013
Hampton Roads 3/26 - 3/27/2013
Salem 4/10 - 4/11/2013
Exam last day

Concrete Plant School

Salem 1/8 - 1/9/2013
Richmond 3/12 - 3/13/2013
Exam last day

Pavement Marking School

NOVA 1/8 - 1/9/2013
Fredericksburg 2/13 - 2/14/2013
Hampton Roads 3/12 - 3/13/2013
Salem 3/26 - 3/27/2013
Richmond 4/2 - 4/3/2013
Exam last day

Slurry Surfacing School

Richmond 2/22/2013
Salem 2/28/2013
Exam same day

Soils & Aggregate Compaction School

Richmond 1/8 - 1/11/2013
Hampton Roads 1/22 - 1/25/2013
NOVA 3/5 - 3/8/2013
Fredericksburg 4/2 - 4/5/2013
Salem 4/16 - 4/19/2013
Exam last day

Surface Treatment School

Richmond 2/22/2013
Salem 2/28/2013
Exam same day

**ALL CLASSES START AT 8:00 AM.
EXCEPT SLURRY SURFACING WHICH STARTS
AT 1:00 PM.**

WEATHER CANCELLATION AND SCHEDULE
UPDATES AVAILABLE AT:
1-866-527-8656



School Locations

Salem:

Salem Civic Center
1001 Boulevard
Salem, VA 24153
(540) 375-3004

Richmond:

The Homewood Suites
5996 Audubon Drive
Sandston, VA 23150
(804) 737-1600

From I-64 take Airport exit to first light, turn left, hotel is on left.

Hampton Roads:

Hilton Garden Inn
100 East Constance Road
Suffolk, Virginia 23434
757-925-1300

*Take Rte 58/460 to Downtown Suffolk @
Constance Road/North Main Street Intersection
www.suffolk.gardeninn.com*

Fredericksburg:

Fredericksburg Expo & Conference Center
2371 Carl D. Silver Parkway
Fredericksburg, VA 22401
I-95, Rte 3 W, Exit 130B
(540) 548-5555

Staunton:

Holiday Inn Golf and Conference Center
152 Fairway Lane
Staunton, VA 24401
I-81, Exit 225
(540) 248-6020

NOVA:

Virginia Center for Innovative Tech. Complex
2214 Rock Hill Road
Herndon, VA 20170-4228
(703) 742-6971

Central Office:

Materials Division (Elko)
6200 Elko Tract Road
Sandston, VA 23150
(804) 328-3151

Luck Stone- Boscobel Plant:

485 Boscobel Road
Manakin, Virginia 23103
(804) 328-3151

