

**MID-ATLANTIC REGION
TECHNICIAN CERTIFICATION
PROGRAM**

**Maryland State Highway Administration
Technician Certification Program
Training / Testing Information
December 2020**



Mid-Atlantic Region Technician Certification Program

Office of Materials Technology Technician Certification Renewal Policy

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Mid-Atlantic Region Technician Certification Program

1. Introduction

The Office of Materials Technology (OMT) manages the Maryland Technician Certification Program, which is also part of the Mid-Atlantic Region Technician Certification Program (MARTCP). This brochure provides information about technician certification courses. It is a changing document that is continually updated as classes are developed, and new information is obtained. Not all the certifications in this brochure are part of the MARTCP Program.

The latest brochure may be obtained by contacting Evan Howard at 443-572-5020. **You may also download the brochure by visiting our website at:**

<https://www.roads.maryland.gov/mdotsha/pages/index.aspx?PageId=53>

These certification courses are not introductory programs. It is advised that applicants have some knowledge in highway and 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.

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2. Technician Certification Program Summary of Guidelines

2.1. Soils & Aggregate Compaction Technician (MARTCP)

This course will provide instruction on conventional and nuclear density testing, one-point proctor and moisture determination. Also covered are construction and testing of subgrade, pipe installation, roller patterns and reports. Passing both the written and “hands on practical” exams is required to achieve certification.

Prerequisite: *Nuclear Gauge Safety Certification Course*

2.2. Aggregate Technician (Plant/Field) (MARTCP)

No classes will be given for Aggregates. This course is self-taught from an available manual. Certification in this field requires passing a written test on plant and field aggregate requirements as well as a confirmation of performance are required to achieve certification.

2.3. Concrete Field Technician (MARTCP)

American Concrete Institute (ACI) Concrete Field Technician Level 1 certification is required. Candidates receive a reciprocal certification after Providing documentation of an up-to-date certification from an approved certifying organization (such as: ACI, VDOT, etc.)

2.4. Concrete Plant Technician (MDOT-SHA)

Instruction includes components of concrete, mix design basics, aggregate gradation and moisture content, batch weight calculations, plant inspection requirements, technician responsibilities and specifications. Passing a written exam is required to achieve certification.

A reciprocal certification may be obtained by showing proof of having a National Ready-Mix Concrete Association (NRMCA) Concrete Technologist Level 2 or Level 3 certification.

2.5. Asphalt Field Technician (MARTCP)

Instruction is given on the placement, sampling, compaction and delivery of Hot Mix Asphalt. This course delivers recognized best practices on a national and state level that ensures quality HMA at the project site. Passing a written exam is required to achieve certification.

2.6. Asphalt Plant Technician – Level 1 (MARTCP)

Instruction is given on plant operations that influence mix quality. This includes daily quality control sampling and testing performed by the certified technician. Passing a written exam and a confirmation of performance are required to achieve certification.

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2.7. Asphalt Plant Technician – Level 2 (MARTCP)

Instruction is given on HMA Superpave mix design analysis, materials selection and process control. Laboratory hands-on training is also provided. Passing a written exam is required to achieve certification

Prerequisite: *HMA Plant Tech – Lev. 1 Certification for entry into class*

2.8. Pavement Marking Technician (MARTCP)

This instruction consists of standard practices, pavement marking materials, roots and descriptions and quality control practices. Hands on training is also provided. Passing of a written exam is required to achieve certification.

A program to take the Pavement Marking course via an interactive web-base is also available. This on-line training includes classroom instruction and a practice exam. Passing of a written exam is required to achieve certification.

2.9. Inertial Profiler Operator Technician (MARTCP)

Instruction is given in pavement smoothness. The course is designed for those technicians that are directly involved in the use of inertial profilers and the application of the data obtained from inertial profilers. Passing a written exam and a confirmation of performance are required to achieve certification.

3. Training Schedule

The Training Schedule is a changing document that is continually updated as classes are developed, and new information is obtained. The latest schedule may be obtained by contacting Evan Howard at 443-572-5020. **You may also download the schedule by visiting our website at:**

<https://www.roads.maryland.gov/mdotsha/pages/index.aspx?PageId=53>

4. Exam Schedule

Examinations for most courses are given on the last day of the course. To take only the exam without taking the course, contact Evan Howard at 443-572-5020

Re-certification

Re-certification shall be obtained in accordance with the “Maryland State Highway Administration’s Technician Certification Renewal Policy”. The latest brochure may be obtained by contacting Evan Howard at 443-572-5020. **You may also download the brochure by visiting our website at:**

<https://www.roads.maryland.gov/mdotsha/pages/index.aspx?PageId=53>

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5. Contacts for Scheduling Technician Certification Classes

Class	Contact Information
Soils & Aggregate Compaction, Aggregates, Concrete Plant, Asphalt Plant Levels I & II, Inertial Profiler Operator	Evan Howard 443-572-5020 martcp@mdot.maryland.gov
Concrete Field (ACI)	Mindy Green Mindy@marylandconcrete.com (both Maryland chapter) 301-694-4899
Asphalt Field (Online)	Margaret Tran – Maryland Asphalt Assoc. 410-761-2160 mtran@mdasphalt.org
Pavement Marking	Evan Howard 443-572-5020 martcp@mdot.maryland.gov
Pavement Marking (Online)	Karen Swick - kswick@umd.edu 240-472-2545 https://www.citeconsortium.org/course/pavement-marking/

Certification Contacts

Name	Title	Responsibilities	Phone
Evan Howard	Division Chief, Materials Management Division	Information on SHA's Technician Certification Programs, registration information, reciprocal certifications, fees, class schedules, and certification status. Also, responsible for conducting certification testing and retesting, database input, and providing test results.	443-572-5020

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6. Fee Schedule

Soils & Aggregate Compaction	3 Day Class - \$410.00 Test only - \$410.00
Aggregates (No class given – test only)	\$200.00
Concrete Field	Call ACI contact
Concrete Plant	\$250.00
Asphalt Field	Call MAA contact
Asphalt Plant-Lev. 1	\$250.00
Asphalt Plant-Lev. 2	Call SHA contact
Pavement Marking	\$250.00
Inertial Profiler Operator	\$250.00
All Reciprocal/Re- Certifications	\$50.00

Note 1: Except as noted for Soils & Aggregate Compaction, Aggregates and Pavement Marking, the fee will be the same for taking the class and the test as for taking only the test without the class.

Note 2: If a scheduled technician is unable to attend, cancellation notice must be received within 72hrs. prior to the training or testing date. Since cancellation policies vary according to the class, it is advised that applicants check with the appropriate class contact for the applicable policy. **The full fee will still be charged for no-shows.**

Note 3: The fees shown were up-to-date at the time of printing, but, are subject to change. To be assured of the current cost, please call the appropriate contact listed on page 5.

Note 4: If a technician misplaces their certification card, there will be a \$25 fee for a replacement card.

7. Policy on Testing and Retesting for Technician Certification

1. The fee for the training and the examination in each material discipline may vary, depending on the discipline. Examinations for all disciplines include a written test, and some include a performance test in addition to the written test.
2. If you fail the written test, or both the written and performance tests, you will be allowed one retest of the applicable test(s) at no additional charge after a waiting period of at least forty-five days. The waiting period is intended to allow the technician time to gain experience and become more proficient. A waiver of the 45 days waiting period may be approved on a case-by-case basis. You must take the retest within one year of failing the original test.
3. If you fail the retest, you must take the complete training and full examination again. The fee for this additional training and certification examination may vary, depending on the discipline.

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8. Re-certification by Independent Assurance Audits

For some materials disciplines, if you receive 3 satisfactory Independent Assurance (I.A.) audits during your 5yr. certification period with the 3rd audit perform in the 5th year, you qualify for certification renewal without retaking the class and/or passing the written and/or performance exams.

The number of audits required varies according to discipline. Audits must be performed in accordance with the “Technician Certification Renewal Policy”.

You may download the “Renewal Policy” brochure by visiting our website at:
<https://www.roads.maryland.gov/mdotsha/pages/index.aspx?PageId=53>

To schedule Independent Assurance Audits, send all request to iaateam@mdot.maryland.gov

Area of Responsibility	Independent Assurance Auditor	Email Address	Contact Number
Team Leader	Todd Riggleman	triggleman@mdot.maryland.gov	240-920-4604
District 1, 2 and 4	Mike Zulkowski	mzulkowski@mdot.maryland.gov	443-386-9267
District 3 and 5	Mohammed Khondaker	mKhondaker@mdot.maryland.gov	443-695-4041
District 6 and 7	Steven Hall	shall@mdot.maryland.gov	410-371-0015