



PENNDOT ASPHALT PLANT TECHNICIAN REVIEW AND CERTIFICATION COURSE 2023

The PENNDOT Asphalt Level 1 Plant Technician Review and Certification Course includes a two-day review course for technicians directly involved with asphalt pavement mixture design, asphalt mix production, and process control and/or quality assurance testing. The course concludes with a written examination on the third day. The course was developed by NECEPT in cooperation with PENNDOT and private industry. For qualified applicants, attending this review course and passing the examination fulfills the requirements for Level 1 Plant Technician certification.

This is a review course on asphalt mixes, and not a training course on asphalt mixes. Therefore, a working knowledge of basic principles and procedures for asphalt mix design is necessary. Recommendation by signature of a Certified Asphalt Plant Technician and of a PENNDOT District Materials Engineer/District Materials Manager, and a minimum of 500 hours of work experience related to asphalt production plants are required to qualify for this course. The certification period is five years. Renewal of certification may be obtained according to procedures described in PENNDOT Pub. 351.

Course materials include a notebook compiled by NECEPT that contains numerous PENNDOT documents: specifications for materials sampling, testing and acceptance; Bulletin 27 with guidelines for designing Superpave mixtures; PENNDOT test methods (PTMs) and related AASHTO methods. The course also includes plant operations and design of Stone Mastic Asphalt. Participants will only be tested on the material covered throughout the course, the AASHTO test methods incorporated by PENNDOT in Bulletin 27, and Pub. 408 Specifications. The examination will be open book, consisting of multiple-choice questions. Each participant **scoring 75 (seventy-five) percent** or better will be sent a PENNDOT Asphalt Level-1 Plant Technician certificate, wallet card, and hard hat sticker within approximately three to five weeks from the exam date.

- **Picture identification is required.** Identification will be verified upon check in and on the day of the examination. Applicants will not be allowed to take the examination without picture ID.
- Most Asphalt Field Review and Certification Courses will be conducted through Zoom™ platform. Instructions on how to connect to Zoom™ will be provided to the course participants through email correspondence. Refer to the training section under NECEPT website (superpave.psu.edu) to find out which courses are offered online and which courses are offered in person.
- For virtual courses, the written exam will be conducted online. For in-person courses, the written exam will be handled in class on the last day of the course and will include paper copies. Participants should have access to a calculator and a desktop/laptop computer with webcam capability.
- At the end of each course module, there will be a short quiz and a short break.



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REVIEW AND CERTIFICATION COURSE 2023**

**PLANT TECHNICIAN CERTIFICATION
Review & Certification Course
COURSE AGENDA**

Instructor: Mansour Solaimanian, PhD., P.E.

DAY 1		
Time*	Module	Topic
7:30 am – 8:00 am		Registrants Connect to the Webinar
8:00 am – 8:30 am	0	Introduction & Orientation
8:30 am – 8:50 am	1	Technician’s Responsibilities
8:50 am – 9:20 am	2	Safety Frist
9:20 am – 9:30 am	1&2	POLLING QUESTIONS & BREAK
9:30 am – 10:20 am	3	Introduction to Asphalt Binders
10:20 am – 10:30 am	3	POLLING QUESTIONS & BREAK
10:30 am – 11:30 am	4	Aggregate Testing, Properties, and Gradation
11:30 am – 12:30 pm	4	POLLING QUESTIONS & LUNCH BREAK
12:30 pm – 1:15 pm	5	Aggregate Blending
1:15 pm – 1:30 pm	5	POLLING QUESTIONS & BREAK
1:30 pm – 2:30 pm	6	Specific Gravity and Absorption of Aggregates and Asphalt Mixes
2:30 pm – 2:45 pm	6	POLLING QUESTIONS & BREAK
2:45 pm – 3:45 pm	7	Analysis of Volumetric Parameters
3:45 pm – 4:30 pm	7	POLLING QUESTIONS, DISCUSSION & DISMISSAL

- **Times and durations are tentative and subject to change.**



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PLANT TECHNICIAN CERTIFICATION
Review & Certification Course
WEBINAR COURSE AGENDA
Instructor: Mansour Solaimanian, PhD., P.E.

DAY 2		
Time*	Module	Topic
7:30 am – 8:00 am		Registrants Connect to the Webinar
8:00 am – 9:15 am	8	8. PENNSYLVANIA ASPHALT SPECIFICATIONS
9:15 am – 9:30 am	8	POLLING QUESTIONS & BREAK
9:30 am – 10:30 am	9	9. PENNSYLVANIA AND AASHTO TEST METHODS
10:30 am – 10:45 am	9	POLLING QUESTIONS & BREAK
10:45 am – 12:00 pm	10	10. PENNDOT BULLETIN 27
12:00 pm – 1:05 pm	10	POLLING QUESTIONS & LUNCH BREAK
1:05 pm – 1:35 pm	11	11. PLANT QUALITY CONTROL
1:35 pm – 1:50 pm	11	POLLING QUESTIONS & BREAK
1:50 pm – 2:00 pm	12	12. ASPHALT MIX PLANT OPERATION
2:00 pm – 2:15 pm	12	POLLING QUESTIONS
2:15 pm – 3:00 pm	13	13. ASPHALT MIX SEGREGATION
3:00 pm – 3:15 pm	13	POLLING QUESTIONS & BREAK
3:15 pm – 4:00 pm	14	14. STONE MASTIC ASPHALT
4:00 pm – 4:30 pm	14	POLLING QUESTIONS, DISCUSSION & DISMISSAL

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