

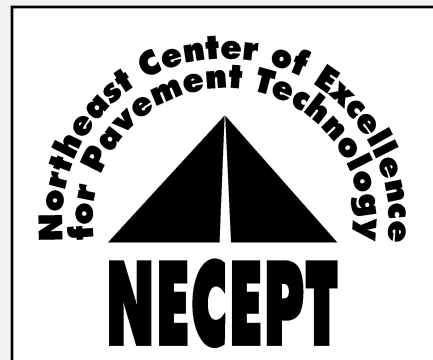
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NECEPT

Northeast **C**enter of **E**xcellence for
Pavement **T**echnology

Certified Asphalt Field Technician Update/Refresher Course

2026



NECEPT

Website: www.superpave.psu.edu

Email: superpave@psu.edu

Covers PENNDOT Certification Program

Click on Training to Access Course Information:

Courses, Registration, Schedule & Agenda, Pub 351, FAQ

Program Assistant

(814-863-1293)



Housekeeping

- 1. Work Experience Requirements**
- 2. Attendance and Participation**
- 3. Breaks during the Course**
- 4. Quiz at the end of each Module**
- 5. Course Material**
- 6. Videos**
- 7. Course Objective**
- 8. Course Agenda**

1. Work Experience Requirements for Certification Renewal (See Pub 351)

- **Minimum of 500 hours of documented experience in asphalt mixture paving or paving inspection since date of last certification.**
- **Type of Experience:**
 - asphalt mixture paving
 - QC or QA inspection experience
 - Surface preparation before asphalt mixture paving
 - asphalt mixture paving, compaction, ride quality measurement
 - analysis, longitudinal joint density measurement or analysis
- **Source of Experience:**
 - PennDOT ECMS, and maintenance,
 - HOP, EMA projects, PTC construction or maintenance projects,
 - Pennsylvania municipal government projects which used PennDOT Liquid Fuels Funds,
 - or from projects in other State DOTs participating in MARTCP.”

2. Attendance and Participation

- Attendance in the course through Zoom is required.
- Zoom records must show at least 90% attendance.
- Participants' Videos will be off.
- Participants' microphones will be off.
- Keep your speakers ON during the course.
- Questions can be asked through Zoom.

2. Attendance and Participation

How to use Q/A and Chat Buttons on Zoom Webinar:

Remember these two rules:

1. **Do you want to ask questions?**

Then USE Q/A

2. **Do you want to answer the instructor's questions?**

Then USE CHAT

3. Breaks during the Course

- **Breaks: Short Breaks (5 to 10 minutes)**
- **Breaks at the End of each Module (after quiz)**

4. Quiz at the end of each module

- Short Quiz – Self Graded
 - 5 Questions after each module
 - 3 minutes to answer questions
- **REQUIRED for Online Course Only:**
 - **Must answer 85 percent of questions**
 - **Not graded for correct or wrong answers**

NOTE: At the end of the module, take the quiz first before taking a break.

The quiz time is limited and will not be reopened.

5. Course Material

Course Material:

**is available online at the NECEPT Website
(superpave.psu.edu)**

Go to Training/Asphalt/Asphalt Field

Link below:

<https://www.superpave.psu.edu/Training/Asphalt/Asphalt-Field.aspx>

6. Videos

- **There are five videos for this course:**
 - **Longitudinal Joint Construction (12.5 min.)**
 - **Surface Preparation (13 min.)**
 - **LTS Testing (21 min.)**
 - **Asphalt Sampling Setup for Lots/Sublots**
 - **Asphalt Laydown (13 min.)**

We will show the first four during the relevant modules but those having trouble viewing through Zoom™, could directly watch at the links provided.

7. Course Objectives

- This is an ***update/refresher*** course for **renewal** of certification as an Asphalt Field Technician. This course provides credit toward renewal of certification for participants.
- **The course objectives are**
 - To provide an ***update*** of essential PennDOT Specifications and PTMs
 - To provide a ***review*** of operations and procedures for asphalt paving
 - To present the latest hot topics and issues related to asphalt materials and paving

8. Course Agenda

- **Module 1 - Field Technician Responsibilities**
- **Module 2 - Update on PennDOT Specifications (Parts 1 and 2)**
- **Module 3 - LTS Testing (Video)**
- **Module 4 - Review of PTMs**
- **Module 5- Lots & Sublots Layout and Sample Locations**
- **Module 6– Review of Superpave & JMF Nomenclature**

- **Problem Solving**
- **Open Discussion, Questions, Areas of Concern**

ACRONYMS

- **Make sure you get familiar with these terms as many of them are frequently used in everyday practice of production and construction of asphalt mixes.**

ACRONYMS

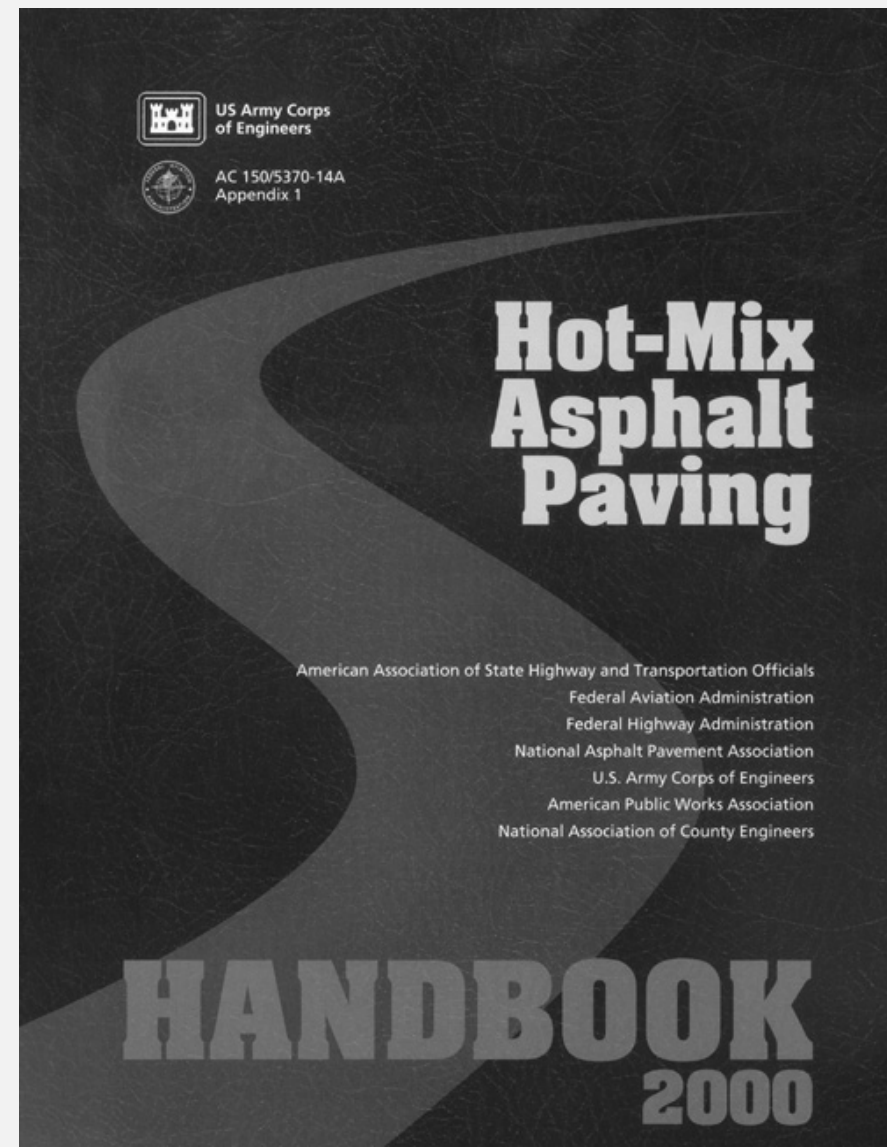
AASHTO	HMA	NMAS	RAM
ACE	IRI	OSHA	RAP
AET	JMF	PAPA	RAS
AI	LTS	PG	SRL
ATPBC	MTV	PTM	SMA
ASTM	MUTCD	QC/QA	TAC
ESAL	NAPA	RPS	VMA
FHWA	NECEPT	PWT	WMA

Excellent Resource

- Hot-Mix Asphalt Paving Handbook
2000 (July 2001) - PDF
- Available from NAPA*
 - List Price: \$12
 - 231 Pages
 - 65 MB

<https://member.asphaltpavement.org/Shop/Product-Catalog/Product-Details?productid={47A571B7-7701-EA11-A811-000D3A4DBF2F}>

*National Asphalt Pavement Association



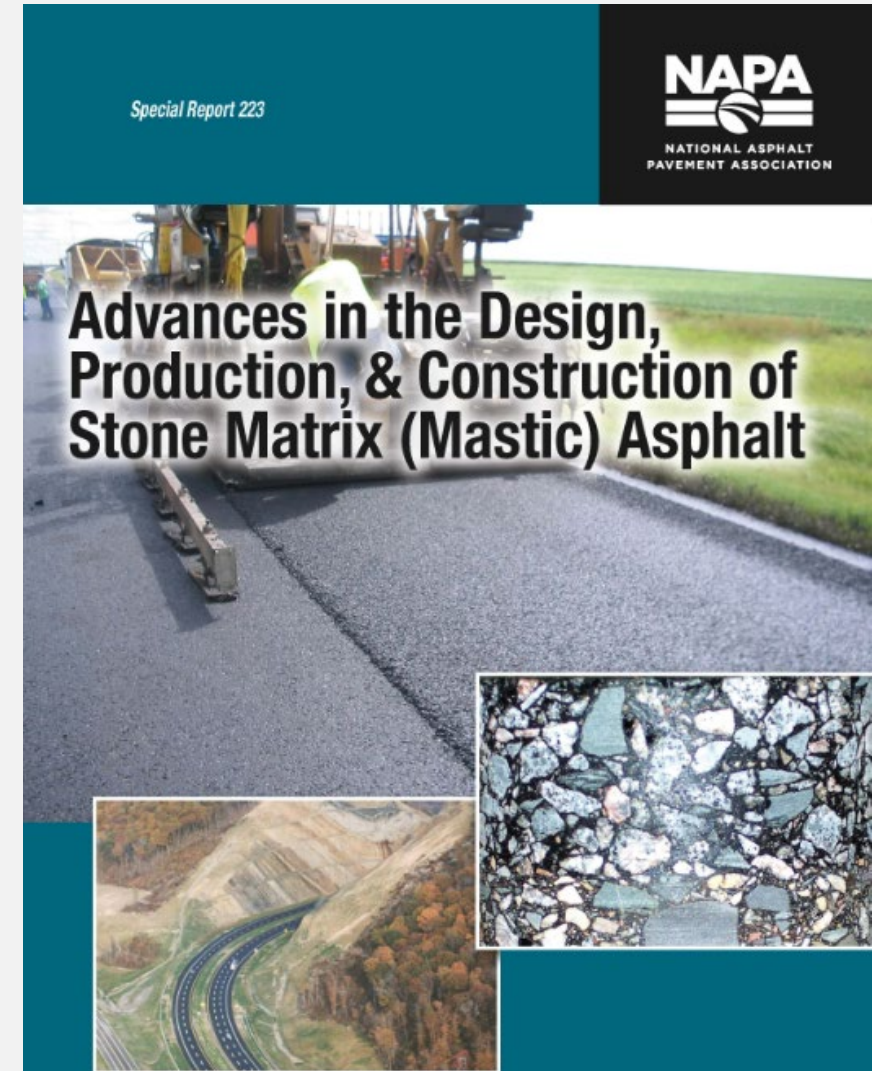
Excellent Resource

- **Advances in the Design, Production, & Construction of Stone Matrix (Mastic) Asphalt - PDF**
- **November 2018**

- **Available from NAPA***
List Price: \$10.00

<https://member.asphaltpavement.org/Shop/Product-Catalog/Product-Details>

***National Asphalt Pavement Association**

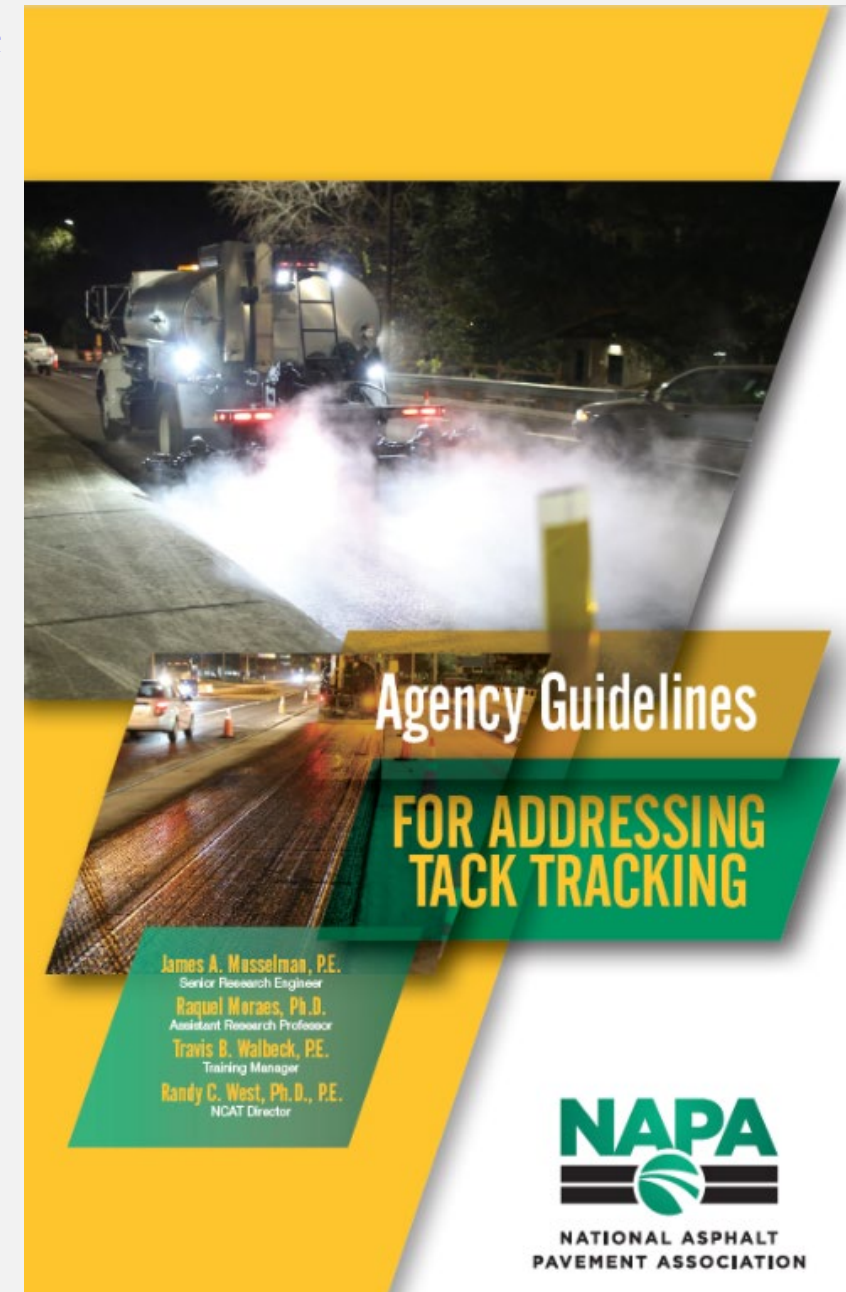


Excellent Resource

- **Agency Guidelines for Addressing Tack Tracking**
October 2020
- **Available from NAPA***
List Price: \$15.00

<https://member.asphaltpavement.org/Shop/Product-Catalog/Product-Details>

***National Asphalt Pavement Association**




Excellent Resource

- **Additives, Aggregates, Binders, and More! How Upstream Suppliers Can Help Mix Producers Improve Their EPDs**
- **August 2023**
- **Available from NAPA***
List Price: \$0.00

<https://member.asphaltpavement.org/Shop/Product-Catalog/Product-Details>

***National Asphalt Pavement Association**



**Additives, Aggregates, Binders,
and More!**

**How Upstream Suppliers Can
Help Mix Producers Improve
Their EPDs**

Wednesday, August 23, 2023

Heather Dylla, Ph.D.
VP, Sustainability and Innovation
Construction Partners, Inc.

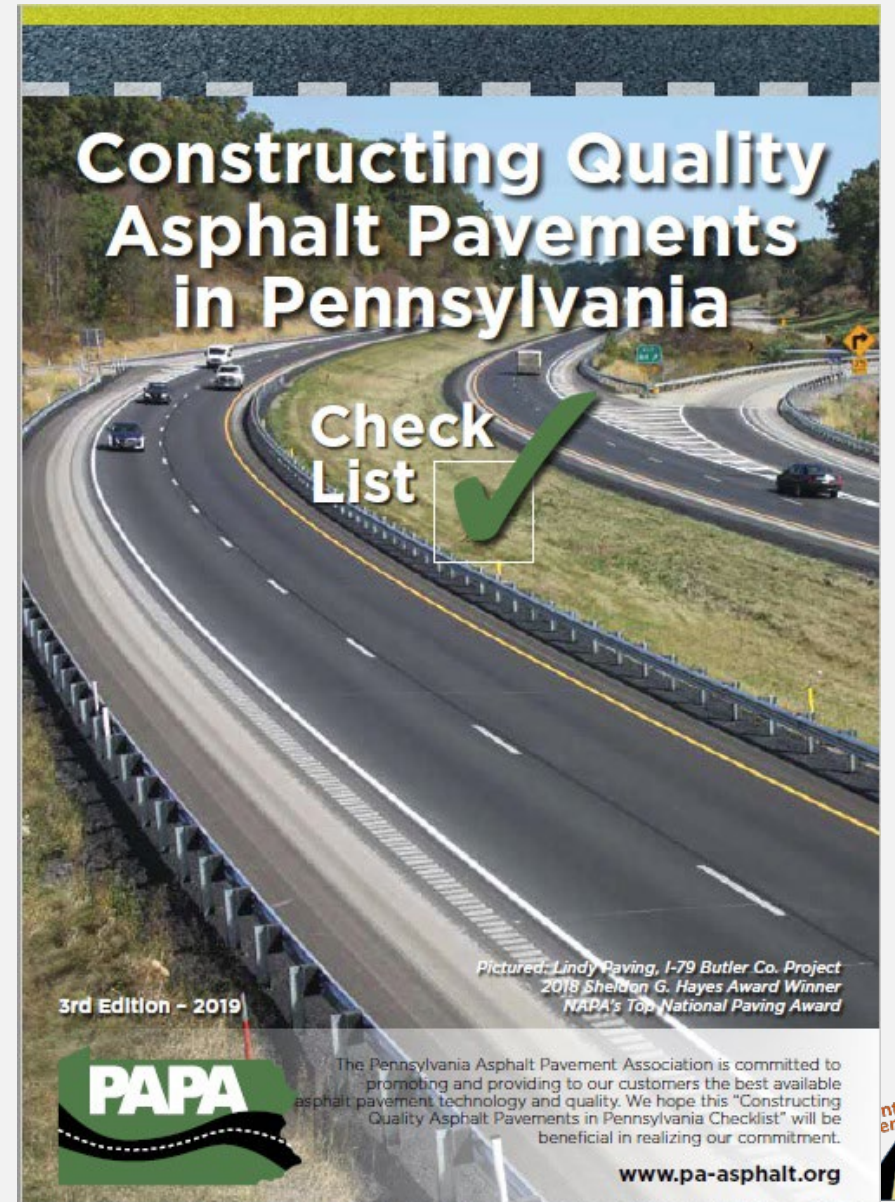
Joseph Shacat
Director of Sustainable Pavements
NAPA

Excellent Resource

Pennsylvania Asphalt Pavement Association

Constructing Quality Hot-Mix Pavements in Pennsylvania Checklist

<http://www.pa-asphalt.org/>



Review of Field Technician's Responsibilities

Technician Certification Program

- **PennDOT Pub 351**
 - 23 CFR
 - Background Info
 - Certification & Recertification Requirements
 - Application Procedures
 - Exam Review & Retest
 - Code of Ethics

BITUMINOUS OR ASPHALT TECHNICIAN CERTIFICATION PROGRAM

BITUMINOUS OR ASPHALT
PLANT AND FIELD TECHNICIANS

Initial Certification Requirements
Certification Renewal Requirements
Registration Procedures
Performance Review and Code of Ethics
Course Administration

11/2018

Asphalt Technician in Training Requirements as in Pub 351

- Field Supervisor will need to sign off on experience (24 hours of Experience)
- ACE will need to sign off on capabilities.
- Must take Review and Certification Course in next Cycle (and Get Passing Grade)

Certification Renewal

Pub 351: Section IX

- **Must be Certified for previous 5 years**
- **Must have 500 documented hours experience on State Asphalt Paving projects**
- **Must have PennDOT or PTC signature to confirm satisfactory performance**
- **Within the 5 years, must have attended :**
 - **Two NECEPT Field Technician Update/Refresher Courses, or....**
 - **One NECEPT Update/Refresher Course and any other acceptable asphalt-related conference, seminar, or workshop summed to at least SIX hours**

Certification Renewal

Examples of Acceptable Asphalt-Related Annual Conference Seminars, or Workshops

- Annual APC Conferences
- Annual PAPA Conferences
- Mid-Atlantic States Quality Assurance Workshop
- Nationally recognized conferences or courses
- PennDOT pre-approved Department or Industry sponsored training

Apply for Certification Renewal Card Online

Submit Recertification & Application online & Processing Fee (\$35.00)

Asphalt Recertification for Field Technicians

Please refer to [PennDOT Publication 351](#) prior to registration to verify that you meet all of the recertification requirements.

The following items **MUST** be included in your online application.

1. Experience: 500 hours of asphalt mixture paving experience **within the past five years.**
2. Your first Learning Activity: One NECEPT field update refresher **within the past five years.**
3. Your second Learning Activity: One of the following learning activities **containing at least six hours of asphalt-related content within the past five years.**
 - A. A second NECEPT field update refresher (taken in a different year than the first update refresher)
 - B. An approved learning activity listed in Pub 351
 - C. A pre-approved learning activity not specifically listed in Pub 351. Please submit an agenda for review and pre-approval IF it does not appear on the [Evaluated 2nd Learning Activities](#).

An electronic approval signature from an authorized PennDOT or PTC representative is required for your certification renewal. Please select the representative that will best know your work experience and history.

Carefully select the month and year that your current card expires to ensure that your card is issued with the correct dates.

Only one course number can be selected in each order. Multiple people can be registered for the same course.

Quantity MUST equal the number of people registering in this order.

Quantity	Course Description	Cost
<input type="radio"/> <input type="text"/>	(202262) Asphalt Field Technician Renewal for December 2022 Course Date(s): December 2022	\$35.00

www.superpave.psu.edu

Section XIII: Code of Ethics

Four Principles:

- a. Demonstrate a concern for the welfare and dignity of the recipients of the services, including Department personnel.
- b. Maintain high standards of professional competence.
- c. Provide accurate information about asphalt technician services.
- d. Function with discretion and integrity in relations with colleagues and other professionals.

As a certified Technician, you may represent one of the following:



In any case, your responsibility is to ensure a quality product is being placed.

What are your responsibilities ?

1. Know the specifications
2. Know the PTMs needed to ensure quality control
3. Be familiar with paving operations
4. Recognize mix and paving deficiencies
5. Be able to recommend corrective action
6. Adhere to the four principals of the code of ethics

Responsibilities: Pre-Pave Set Up

- Review Job Mix Formula
- Review Project Quality Control Plan & Special Provisions
- Ensure proper preparation of the Nuclear Gauge or Electrical Impedance Gauge
- Check Compaction Equipment
- Set Up Initial Rolling Pattern
- Check Box Sample and/or Core Locations

Responsibilities: Start of Paving Operation

- Check surface preparation
- Check Mix Temperature
- Record Initial Density Readings
- Check Mat Appearance
- Check Joints
- Make Adjustments as Required
- Record Initial Roller Pattern/ Temps

Responsibilities: Paving Operation

- Monitor Startup Operations
- Monitor Truck Exchange
- Monitor Compaction
- Check with Plant
- Check Finished Product
- Specify Coring Locations for Acceptance
- Maintain Good Communications.

Experience

- Experience allows you to recognize a mistake when you make it again.
- Keep records of mix tendencies as to temperature, amplitude, vibration, cross-slope and grade as related to density and ride.

**Your Effort Towards Achieving
A Quality Paving Job Makes
The Difference Between A Great
Job And A Mediocre One.**

MAKE THE EFFORT!