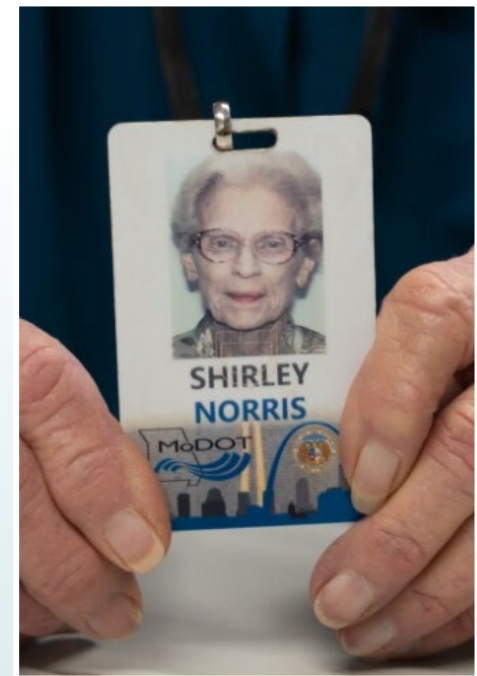


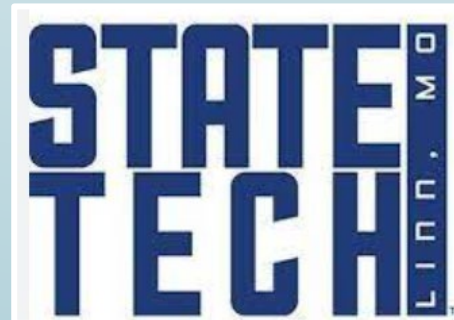


MTRAC 2024

IOWA



92-year-old MoDOT
Employee still working
Full-time.
Shirley Norris.
Project Manager



Bigger classroom
for 2025!

Donna Hoeller TCPC

CERTIFICATION

- **INITIAL CERTIFICATON – In Person**

- First time certification
- Failed testers
- Expired certification (More than 90 days pass expiration date)
- Assigned by Review Board - DNCF/Discrepancy in testing
- **Location:**
 - On-site classroom at State Technical College in Linn, MO.
- **Review:**
 - Includes a lecture, equipment demonstration, math instruction and homework.
- **Exams:**
 - *Computerized Exam* -
 - Classroom, proctored in person
 - Exams have a test bank, questions are randomized
 - *Proficiency Testing* -
 - Laboratory, proctored in person
 - Equipment to use while testing
 - Verbal explanation of the methods
- **Manuals:** Are provided by MODOT.
- **Certification:** Lasts 5 years

CERTIFICATION

- **RENEWAL - Virtual**
 - **Location:**
 - At your home or office
 - **Review:**
 - Is on your own
 - **Exams:**
 - *Computerized Exam* - Uses Campus
 - Is proctored live online through the college via zoom meeting.
 - *Proficiency Testing* -
 - Is a video recording with questions (multiple choice).
 - Can be taken before the Exam, or after.
 - Can retake until reach a passing grade.
 - **Manuals:**
 - Are online to view, to print or technicians can obtain one from the MODOT TCP Office.
 - **Certification:**
 - Lasts 5 years

STC - Screen Shot – Courses - Testing

The screenshot displays the STC (State Technical Center) dashboard at the URL statetechmo.instructure.com. The dashboard features a dark blue sidebar on the left with navigation links: Account, Dashboard, Courses, Calendar, Inbox, History, Commons, Studio, and Help (with a notification badge showing 4). The main content area is titled "Dashboard" and "Published Courses (17)". It displays a grid of course cards, each with the "STATE TECH LINN. MO" logo and a title. The visible courses are:

- Aggregate Technician 2022 Aggregate 2022
- Aggregate Technician Renewal 2022 ATR 2022
- Bituminous Technician 2022 BT 2022
- Bituminous Technician Renewal 2... BTR 2022
- Concrete Field 2022 CF 2022
- Concrete Field Renewal 2022 CFR 2022

Each card includes a speaker icon for audio and a document icon for a PDF. The cards are arranged in a 3x3 grid, with the bottom row partially visible.

STC Grades – Displayed after testing



Account



Dashboard



Courses



Calendar



Inbox



History



Studio



Jane R. Smith Grades

Courses I'm Taking

Soil Density 2024	92.50%
Concrete Field Technician Renewal 2024	85.35%
Bituminous Technician Renewal 2024	no grade
Concrete Strength Renewal 2024	no grade
Aggregate Technician Renewal 2024	no grade

EXAMS

- **Computerized Exam**

- Open book, Open note
- Most exams are 2 hours.
 - Except IRI, Binder Ignition, and Plasticity Index are 1-hour exams
 - Superpave is 3-hour exam
- Initial exams are in-person, renewals are virtual
 - Exceptions, renewals are same as initial testing for:
 - Tensile Strength Ratio (TSR)
 - Hot Mix Aggregate (HMA)
 - Binder Ignition (BI)
 - International Roughness Index (IRI)
 - For all exams 85% is passing except for Superpave 80% is needed to pass.
- After passing, grades will be sent to MoDOT TCP office and entered in a data base.
 - Currently using Microsoft Access
 - Working on AASHWARE Product (AWP) to do some of the processes.
- From the access data base, cards will be made and emailed.

Microsoft Access – Data Base

MoDOT TCP

File Home Create External Data Database Tools Help Tell me what you want to do

All Access Objects

Search...

Tables

- Base Employer Info
- Employers
- List
- tblbusiness type
- Technicians
- Test Methods
- Titles

Queries

Forms

- frm Employer Address Input
- frmExpiration Management

Reports

- Copy Of rptTechnician Certification Status...
- do not use rptletter contractor reciprocity...
- List
- rpt Employer Code Report Date Change ...
- rpt Employer Status Report List
- rpt letter ABS T85

frmExpiration Management

Tuesday, August 6, 2024 9:45:46 A

Date Modified 1/22/2018

Title	Mr.	Employer Code	Terracon - Springfield
Last Name		Email	old@terracon.com
First Name	Michael	Employer	Consultant
Middle Name	A	Cert by Reciprocity	<input checked="" type="checkbox"/>
Lineage		Reciprocity Agency	ACI,CTTF
Cert. Number	000-06-6580	Status	A
USERID	x066580		

☐ Date Change? Restricted

AT	8/31/2027	<input checked="" type="checkbox"/> PI	12/31/2024	CM	
BT	4/30/2028	<input checked="" type="checkbox"/>		IRI	
CF	10/31/2027	LS		FD	
CS	5/31/2029				
SD	12/31/2024	<input checked="" type="checkbox"/> TSR			
SP	12/31/2028	<input type="checkbox"/> BI		Special Test Method Exp.	
		HMA	12/31/2028		

Intern Expiration 7/22/2018 Intern's Supervisor Mr Nick Alton

Record: 12 of 3481 No Filter Search

Comments

intern.

Restrictions:
AT - TM71
SD- TM40 and TM35
BT = TM54

06/10/2024 - used to work for Olsson

CARDS:

MoDOT TCP

Take a photo



MoDOT

Missouri Department of Transportation
Patrick K. McKenna, Director

105 West Capitol Avenue
P.O. Box 270
Jefferson City, Missouri 65102

1.888.ASK.MODOT (275.6636)

Tuesday, August 6, 2024

Mr. Jane R. Smith
Klingner & Associates, PC
616 North 24th Street

Quincy IL 62301

Dear Mr. Lightle

Congratulations upon completing the requirements for certification or reciprocity. Listed below are your current MoDOT certifications with expiration date. This list includes the most recent updates in certification, recertification, and reciprocities.

Emailed

Aggregate Technician (AT) ☐
Bituminous Technician (BT) ☐
Soil Density (SD) ☐
Superpave QC/QA (SP) ☐
Agg. Specific Gravity (ASG) ☐
Tension Strength Ratio (TSR) ☐
Registered Intern (RI) ☐
International Roughness Index (IRI) ☐

Plasticity Index (PI) ☐
Concrete Field (CF) 7/31/2029
Concrete Strength (CS) ☐
Field Density (FD) ☐
Low Slump (LS) ☐
HMA Aggregate Test (HMA) ☐
Binder Ignition (BI) ☐
Compressive Strength (CM) ☐

Note: Check mark indicates a restriction.

MoDOT Technician Certification (573) 522-2742

This is to verify that **Jane R. Smith**
is certified to perform inspection or testing on MoDOT Projects.

MoDOT
Brett S. Trautman
TCP-MQE

This paper card can be cut out or take a picture of the card to be used as presentable proof of your certification. You may be asked to present a valid photo ID for verification. NOTE: As of 08/05/2022, We will no longer issue plastic cards.

A checkmark next to a Certification indicates a Restriction. You will be limited to the test methods covered in your training. You may contact Donna Hoeller 573-522-2742 to find out what restrictions you have for each checked item.

As you begin your testing duties in Missouri, we caution you to be aware of the Missouri specifications and testing requirements. You can find Missouri specifications on our website. Please contact me at 573-522-2742 concerning any questions.

Sincerely,

Brett S. Trautman

Brett S. Trautman, P.E.
Materials Qualification Engineer
bt-cm

Enclosure



Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.
www.modot.org

AASHTOWARE Product - (AWP)

Data Base

Home Previous My Pages

Overview

Person Qualifications Summary

Person: Michael A. [REDACTED]

General

Tester

Tester Labs

Sampler

Sampler Labs

Sample Reviewer

Calibrator

Calibrator Labs

Welder

Stormwater Inspector

Q Type search criteria or press Enter

System Default

Showing 8 of 8

Select Testing Qualifications...

Qualification ID	Qualification Type	Qualification Description	Status	Active
SD	MO - MoDOT	Soil Density -TCP-MoDOT	ACTIVE - Active	Yes
Effective Date	Expiration Date			
2018/02/21	2024/12/31			
CF	MO - MoDOT	Concrete Field -TCP-MoDOT	ACTIVE - Active	Yes
2018/03/08	2027/10/31			
CS	MO - MoDOT	Concrete Strength -TCP-MoDOT	ACTIVE - Active	Yes
2018/03/19	2029/05/31			
AT	MO - MoDOT	Aggregate Technician-TCP-MoDOT	ACTIVE - Active	Yes
2019/01/30	2027/08/31			
SP	MO - MoDOT	Superpave QC/QA -TCP-MoDOT	ACTIVE - Active	Yes
2019/06/07	2028/12/31			
PI	MO - MoDOT	Plasticity Index -TCP-MoDOT	ACTIVE - Active	Yes
2019/02/22	2024/12/31			
BT	MO - MoDOT	Bituminous Technician -TCP-MoDOT	ACTIVE - Active	Yes
2017/12/01	2028/04/30			
HMA	MO - MoDOT	Asphalt Consensus Tests -TCP-MoDOT	ACTIVE - Active	Yes
2017/12/01	2028/12/31			

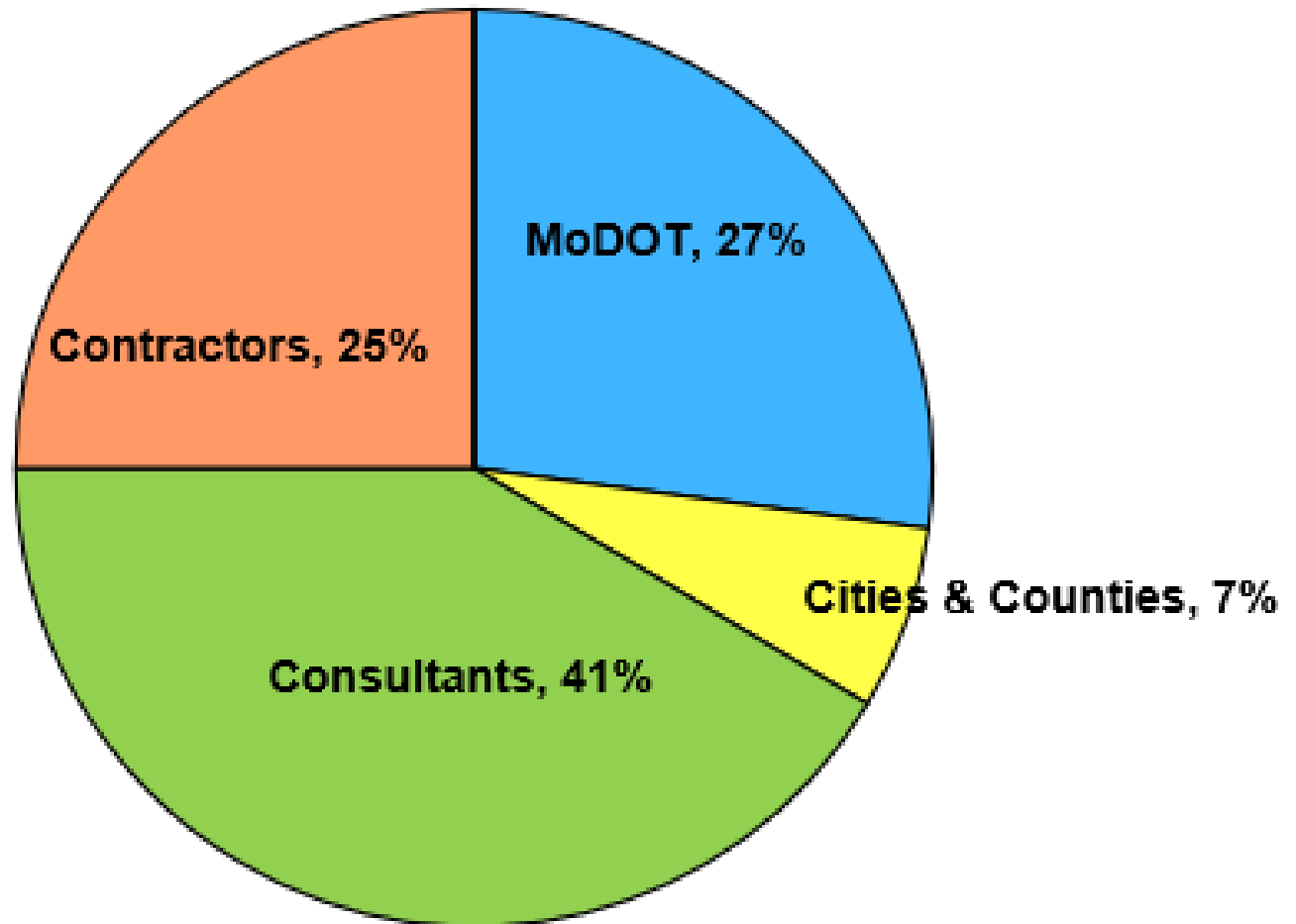


Year 2024

CERTIFICATIONS COMPLETED

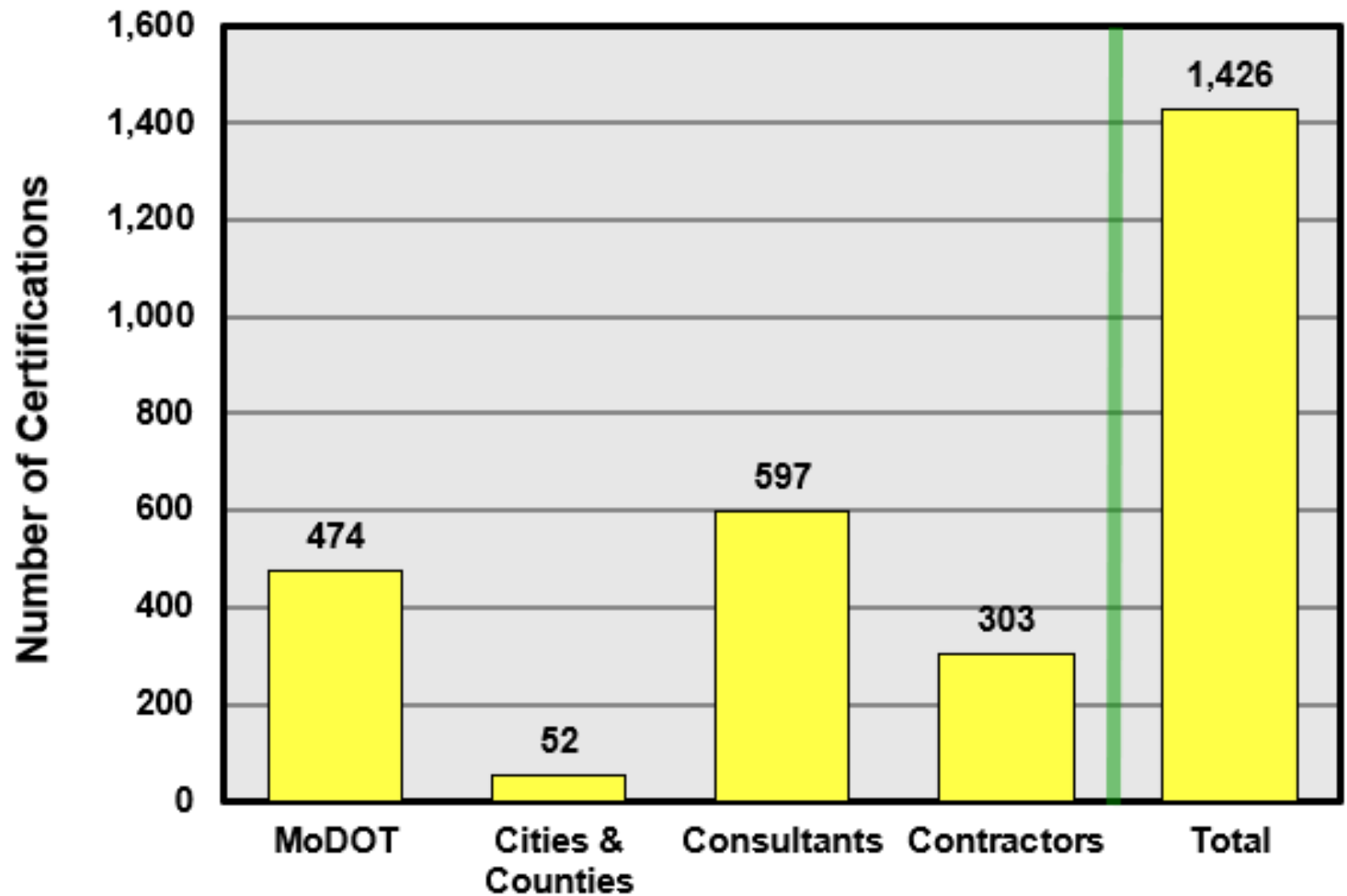
2024

Inspectors in Technician Certification Program



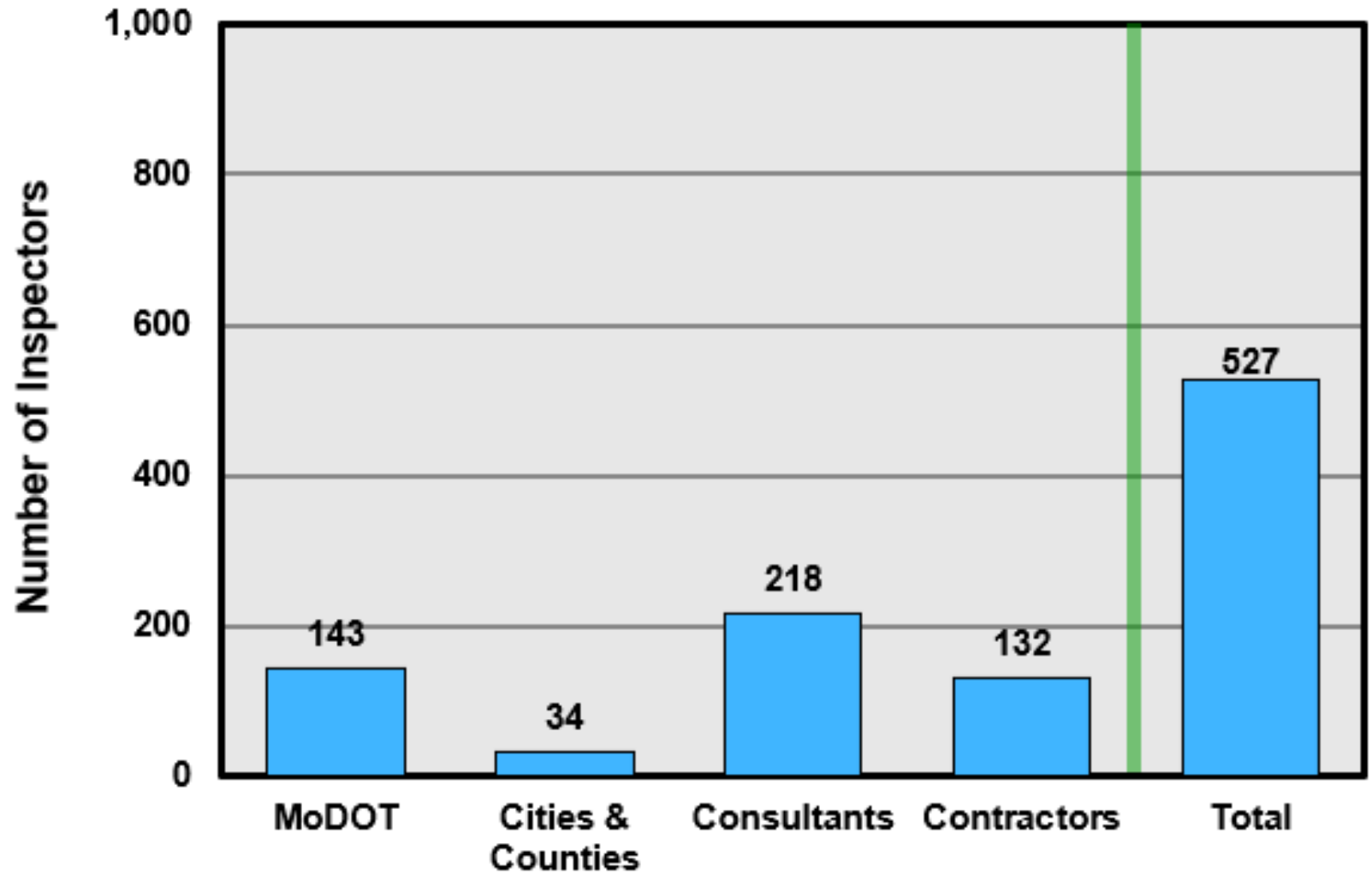
2024

Certifications Issued - 2024



2024

Inspectors Certified - 2024





CHANGES

THREE – DAY AGGREGATE TECHNICIAN COURSE

2024

AT = Aggregate Technician Part 1 and 2

No Prerequisite

PART ONE

AASHTO R90

AASHTO R76/ASTM C 702

AASHTO T 255/ASTM C 566

AASHTO T 11/ASTM C 117

AASHTO T 27/ASTM C 136

PART TWO

MoDOT TM 71

ASTM D 4791

AASHTO T 84/ASTM C 128

AASHTO T 85/ASTM C 127

MoDOT TM 81

Sampling of Aggregates

Reducing Samples of Aggregate to Testing Size

Total Moisture Content of Aggregates by Drying.

Materials Finer than No. 200 by Washing

Sieve Analysis of Fine and Coarse Aggregates

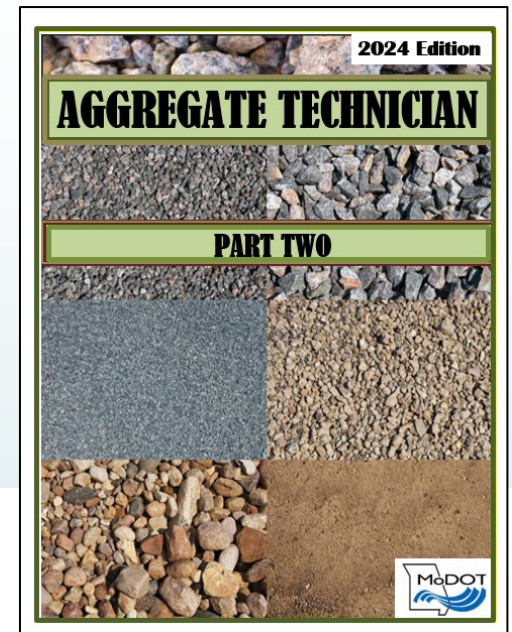
Deleterious Content of Aggregate

Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregates

Specific Gravity and Absorption of Fine Aggregate

Specific Gravity and Absorption of Coarse Aggregate

Specific Gravity and Absorption of Aggregate Using Automatic Vacuum Sealing Method (Informational Only)



ELIMINATING COMPRESSIVE STRENGTH AND FIELD DENSITY

2025

Compressive Strength (CS)

Location: MODOT Central Lab Jefferson City

1 Day

Can be found in
Concrete Strength

PDH hours 2

AASHTO T 231/ASTM C 617 Capping Cylindrical Concrete Specimens

ASTM C1231 Use of Unbounded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens

AASHTO T 22/ASTM C 39 Compressive Strength of Cylindrical Concrete Test Specimens

Field Density (FD) (Note: FD is the 2nd half of Soil Density – Field work only)

PDH hours 2

No Prerequisite

Location: MODOT Central Lab Jefferson City

1 Day

AASHTO T310

Density and Moisture Content of soil and Soil Aggregate by Nuclear Methods (Shallow Depth)

AASHTO TM 35

Moisture Offset Factor for a Nuclear Gauge

Can be found in
Soil Density

- Courses at the MoDOT Central Laboratory in Jefferson City will be eliminated.
- All courses will be held at STC.

BALANCE MIX DESIGN

2026

Superpave QC/QA (SP) STC

PDH hours 36

Prerequisite requirements: Aggregate Technician & Bituminous Technician

3 Days - First Time, 1 Day – Renewal

Location: TBA

AASHTO T 209	Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA)
AASHTO T 312	Preparing and Determining the Density of HMA Specimens by Means of the Superpave Gyratory Compactor
AASHTO T 308	Determining the Asphalt Binder Content of HMA by the Ignition Method
AASHTO R 30	Standard Practice for Mixture Conditioning of HMA
AASHTO R97, and R67	Sampling Asphalt Mixtures and Asphalt Cores
	Practice for Superpave Volumetric Design for HMA
	Standard Specification for Superpave Volumetric Mix Design
	Plant Operation, Intro to Superpave, Field Verification, Volumetrics, HMA QC Plan,
	Temperature-Viscosity Relations, Random Sampling, Contract Administration
	Job Mix Formula (JMF) Interpretation
	Pay Factor Theory, QC/QA, Record Keeping, QC/QA

AASHTO PP 105

yr. 2026

Balanced Mix Design

Adding Balance Mix Design to Superpave in 2026/2027.

CURRENT LIST OF MoDOT CERTIFICATIONS

Aggregate Technician Part 1& 2

Bituminous Technician

Concrete Field

Concrete Strength

Soil Density

Plasticity Index

SuperPave

HMA

Binder Ignition

IRI

TSR

UPDATING/RENEWING OUR CONTRACT WITH State Technical College – (STC)

2025





AC CONTENT

PERCENT AC CONTENT QUESTIONS

2026

MoDOT TM54 Determining the Asphalt Content of an Asphalt Mixture Using a Nuclear Gauge.



Question: How many states are still using a nuclear gauge in the lab to determine the asphalt content of asphalt mixes?

Question: What test or tests are you using to determine percent asphalt of AC mixtures?

Things to consider:

Binder Ignition – Dolomites, recycled materials

Chemical Extraction – GTR, RAP

QUESTIONS??

