



MoDOT Technician Certification Program

Certification Courses Rev:05/21/2026

Figure 2

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Aggregate Technician Part 1 & Part 2 (AT)

PDH hours 9

No Prerequisite

Location: State Tech. College, Linn MO

3 Days - First Time, ½ Day – Renewal

PART ONE

AASHTO R90	Sampling of Aggregates
AASHTO R76/ASTM C 702	Reducing Samples of Aggregate to Testing Size
AASHTO T 255/ASTM C 566	Total Moisture Content of Aggregates by Drying.
AASHTO T 11/ASTM C 117	Materials Finer than No. 200 by Washing
AASHTO T 27/ASTM C 136	Sieve Analysis of Fine and Coarse Aggregates

PART TWO

MoDOT TM 71	Deleterious Content of Aggregate
ASTM D 4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregates
AASHTO T 84/ASTM C 128	Specific Gravity and Absorption of Fine Aggregate
AASHTO T 85/ASTM C 127	Specific Gravity and Absorption of Coarse Aggregate
MoDOT TM 81	Specific Gravity and Absorption of Aggregate Using Automatic Vacuum Sealing Method (Informational Only)

Bituminous Technician (BT)

PDH hours 9

No Prerequisite

Location: State Tech. College, Linn MO

2 Days - First Time, ½ Day – Renewal

AASHTO R66	Sampling Asphaltic Materials
AASHTO R97	Sampling Asphaltic Paving Mixtures
AASHTO R 47	Reducing Samples of Asphalt Mixtures to Testing Size
AASHTO T 329	Moisture Content of Asphalt Mixtures by Oven Method
MoDOT TM 54	Determining Asphalt Content of a Bituminous Mixture by Nuclear Method
AASHTO T 166 & T 331	Bulk Specific Gravity of Compacted Bituminous Material
AASHTO T 269/ASTM D 3203	Percent Air voids in Compacted Dense and Open Bituminous Paving Mixtures
MoDOT TM 20	Measurement of Air, Surface, or Bituminous Mixture Temperature
AASHTO T 308	Determining the Asphalt Binder Content of HMA by the Ignition Method

Soil Density (SD)

PDH hours 9

No Prerequisite

Location: State Tech. College, Linn MO

2 Days - First Time, ½ Day – Renewal

AASHTO T 265	Laboratory Determination of Moisture Content of Soils
AASHTO T 99	Moisture-Density Relations of Soils
MoDOT TM 40	A One-Point Moisture-Density Relations Test for Soils
AASHTO T 310	Density and Moisture Content of Soil and Soil Aggregate by Nuclear Methods (Shallow Depth)
MoDOT TM 35	Moisture Offset Factor for a Nuclear Gauge

Concrete Field (CF)

PDH hours 9

No Prerequisite

Location: State Tech. College, Linn MO

Day 1 of 2 - First Time, ½ Day – Renewal

MoDOT TM20	Measurement of Air, Surface or Bituminous Mixture Temperature
AASHTO R60/ASTM C 172	Sampling of Freshly-Mixed Concrete
ASTM C 1064	Temperature of Freshly-Mixed Portland Cement Concrete
AASHTO T 119/ASTM C 143	Slump of Hydraulic Cement Concrete
AASHTO T 152/ASTM C 231	Air Content of Freshly-Mixed Concrete by the Pressure Method
AASHTO T 23/ASTM C 31	Making and Curing of Concrete Cylinder Specimens in the Field
AASHTO T121M/ASTM C138	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
AASHTO T196M/ASTM C173	Test for Air Content of Freshly Mixed Concrete by the Volumetric Method



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Concrete Strength (CS)

PDH hours

No Prerequisite **Location: State Tech. College, Linn MO** 2 Day - First Time, ½ Day – Renewal

- AASHTO T 24/ASTM C 42 Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
- AASHTO T 148/ASTM C 174 Measuring Length of Drilled Concrete Cores
- 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
- AASHTO T97/C78 Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)

Plasticity Index (PI)

See Current Calendar for pricing

PDH hours 4

No Prerequisite **Location: State Tech. College, Linn MO** 1 Day - First Time, ½ Day – Renewal

- MoDOT TM 79 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test Particle Size Analysis of Soils (Aggregate Specific)
- AASHTO T 89 Determining the Liquid Limit of Soils (Aggregate Specific)
- AASHTO T90 Determining the Plastic Limit and Plastic Index of Soils (Aggregate Specific)

International Roughness Index (IRI) Profile

PDH hours 4

No Prerequisite **Location: State Tech. College, Linn MO** 1 Day

- MoDOT TM 59 Determination of the Surface Profile using the International Roughness Index

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 Gyrotory Compactor
- 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

HMA Aggregate (Consensus Tests) (HMA)

PDH hours 4

Prerequisite requirements: Aggregate Technician **Location: TBA** 1 Day

- AASHTO T 176 Plastic Fines in Graded Aggregates and Soils by the Use of the Sand Equivalent Test
- AASHTO T 304 Un-compacted Void Content of Fine Aggregate
- ASTM D 5821 Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregates

TSR

PDH hours 4

Prerequisite requirements: Superpave QC/QA **Location: TBA** 1 Day

- AASHTO T 283 Resistance of Compacted Asphaltic Mixtures to Moisture Induced Damage