



## MoDOT Technician Certification Program

### Certification Courses

Rev:10/21/2026

Figure 2

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### Aggregate Technician Part 1 & Part 2 (AT)

PDH hours 12

No Prerequisite

Location: State Tech. College, Linn MO

3 Days - First Time (\$750), ½ Day – Renewal (\$300)

#### **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 12

No Prerequisite

Location: State Tech. College, Linn MO

3 Days - First Time (\$750), ½ Day – Renewal (\$300)

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| 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                                  |
| AASHTO T 331             | Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method |

### Soil Density (SD)

PDH hours 8

No Prerequisite

Location: State Tech. College, Linn MO

2 Days - First Time (\$500), ½ Day – Renewal (\$250)

|              |                                                                                            |
|--------------|--------------------------------------------------------------------------------------------|
| 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 8

No Prerequisite

Location: State Tech. College, Linn MO

2 Days - First Time (\$500), ½ Day – Renewal (\$250)

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| MoDOT TM20              | Measurement of Air, Surface or Bituminous Mixture Temperature           |
| AASHTO R60/ASTM C 172   | Sampling of Freshly Mixed Concrete                                      |
| AASHTO T 309            | 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 R 100/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 |

### Concrete Strength (CS)

PDH hours 8

No Prerequisite

Location: State Tech. College, Linn MO

2 Day - First Time (\$500), ½ Day – Renewal (\$250)

|                         |                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| 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)                                |



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### Plasticity Index (PI)

PDH hours 4

|                 |                                                                                                                            |                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| No Prerequisite | <b>Location: State Tech. College, Linn MO</b>                                                                              | 1 Day - First Time (\$250), ½ Day – Renewal (\$250) |
| 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 | <b>Location: State Tech. College, Linn MO</b>                                | 1 Day (\$250) |
| MoDOT TM 59     | Determination of the Surface Profile using the International Roughness Index |               |

### Superpave QC/QA (SP)

PDH hours 18

Prerequisite requirements: Aggregate Technician & Bituminous Technician 3 Days - First Time (\$1,100), 1 Day – Renewal (\$625)

**Location: State Tech. College, Linn MO**

|                     |                                                                                                                                                            |  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 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 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 T 324        | Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures                                                                                                  |  |
| ASTM D8225          | Standard Test Method for Determination of Cracking Tolerance Index of Asphalt Mixture Using the Indirect Tensile Cracking Test at Intermediate Temperature |  |
| ASTM D8360          | Standard Test Method for Determination of Rutting Tolerance Index of Asphalt Mixture Using the Ideal Rutting Test                                          |  |

### Balanced Mix Design (BMD) - Available for currently SuperPave certified technicians.

PDH hours 4

**Location: State Tech. College, Linn MO** 1 Day - First Time (\$300)

|            |                                                                                                                                                            |  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ASTM D8225 | Standard Test Method for Determination of Cracking Tolerance Index of Asphalt Mixture Using the Indirect Tensile Cracking Test at Intermediate Temperature |  |
| ASTM D8360 | Standard Test Method for Determination of Rutting Tolerance Index of Asphalt Mixture Using the Ideal Rutting Test                                          |  |

### HMA Aggregate (Consensus Tests) (HMA)

PDH hours 4

|                                                 |                                                                                                 |                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|
| Prerequisite requirements: Aggregate Technician | <b>Location: State Tech. College, Linn MO</b>                                                   | 1 Day – (\$300) |
| 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 |                 |

### Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage (TSR/HWT)

PDH hours 8

|                                      |                                                                       |                 |
|--------------------------------------|-----------------------------------------------------------------------|-----------------|
| Prerequisite requirements: Superpave | <b>Location: State Tech. College, Linn MO</b>                         | 2 Day - (\$600) |
| AASHTO T 283                         | Resistance of Compacted Asphaltic Mixtures to Moisture Induced Damage |                 |
| AASHTO T 324                         | Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures             |                 |