# BC, MB, NB, NL, NS, PE and SK Asphalt Laboratory Certification Programs
## (Updated 2025 May)

| Certification Programs | |
|---|---|
| **1. Basic Asphalt Certification, Asphalt Mix Compliance - Marshall Method (Type B)** | **ASTM/AASHTO/AI** |
| Preparation of Asphalt Mixture Specimens Using Marshall Apparatus | D6926 |
| Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures | D2726 |
| Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Coated Samples (if required) Or | D1188 |
| Bulk Specific Gravity and Density of Compacted Asphalt Mixtures Using Automatic Vacuum Sealing Method (if required) | D6752 |
| Theoretical Maximum Specific Gravity and Density of Bituminous Asphalt Mixtures | D2041 |
| Percent Air Voids in Compacted Asphalt Mixtures | D3203 |
| Percent VMA in Compacted Mixture | MS-2 |
| **Optional For MB Only - Marshall Stability and Flow of Asphalt Mixtures** | D6927 |
| **AC Determination - Select at least one of the two methods** | |
| Quantitative Extraction of Asphalt Binder from Asphalt Mixtures | D2172 |
| Asphalt Content of Asphalt Mixture by Ignition Method | D6307 |
| **Gradation of Extracted Aggregate** | |
| Mechanical Size Analysis of Extracted Aggregate | D5444 |
| **Additional Asphalt Certification Programs** | |
| **2. Asphalt Mix Compliance Laboratory Superpave Method (Type B)<br>Must also participate in ALL of the Basic Asphalt Certification, Number 1 above. Superpave ONLY laboratories include Number 1, excluding D6926 and D6927.** | |
| Preparing & Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor | T312 |
| Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures | D2726 |
| Theoretical Maximum Specific Gravity and Density of Bituminous Asphalt Mixtures | D2041 |
| Percent Air Voids in Compacted Asphalt Mixtures | D3203 |
| **3. Asphalt Mix Design Laboratory Marshall Method (Type A)<br>Must also participate in ALL of the Basic Asphalt Certification, Number 1 above** | |
| Reducing Samples of Aggregate to Testing Size | C702 |
| Minerals Finer than 75-µm (No.200) Sieve in Mineral Aggregates by Washing | C117 |
| Sieve Analysis of Fine and Coarse Aggregates | C136 |
| Relative Density (Specific Gravity) and Absorption of Coarse Aggregate | C127 |
| Relative Density (Specific Gravity) and Absorption of Fine Aggregate | C128 |
| Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate | D4791 |
| Determining the Percentage of Fractured Particles in Coarse Aggregate | D5821 |
| Effect of Moisture on Asphalt Mixtures | D4867 |
| **4. Asphalt Mix Design Laboratory Superpave Method (Type A)<br>Must also participate in ALL of the above tests, Numbers 1, 2 and 3 above** | |
| Short-Term Laboratory Conditioning of Asphalt Mixtures | R30 |
| Superpave Volumetric Design for Asphalt Mixtures | R35 |
| Effect of Moisture on Asphalt Mixtures | D4867 |
| Sand Equivalent Value of Soils and Fine Aggregate | D2419 |
| Uncompacted Void Content of Fine Aggregate | C1252 |
| Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures (if required) | T305 |
| **5. Laboratories Carrying Out Penetration Testing of Recovered Asphalt Cement (Type E)<br>Must also participate in ALL of the Basic Asphalt Certification, at least Number 1 above** | |
| Penetration of Bituminous Materials | D5 |
| Recovery of Asphalt from Solution by Abson Method Or | D1856 |
| Recovery of Asphalt Binder from Solution Using the Rotary Evaporator | D5404 |
| **6. Laboratories Testing Performance Graded Asphalt Cement (Type F)<br>Unless the laboratory is dedicated to binder testing ONLY, it must also participate at least in the Basic Asphalt Certification, Number 1 above** | |
| Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test) | T240 |
| Grading or Verifying the Performance Grade (PG) of an Asphalt Binder | R29 |
| Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV) | R28 |
| Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR) | T313 |
| Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR) | T315 |
| Viscosity Determination of Asphalt Binder Using Rotational Viscometer | T316 |