

**BC, MB, NB, NL, NS and SK Asphalt Laboratory Certification Programs
(Updated April 2019)**



Certification Programs

**Asphalt Mix Compliance - Marshall Method (Type B)
1. Basic Asphalt Certification**

ASTM/AASHTO/AI

Preparation of Bituminous Specimens Using Marshall Apparatus	D6926
Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	D2726
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples (if required) Or	D1188
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method (if required)	D6752
Marshall Stability and Flow of Asphalt Mixtures	D6927
Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	D2041
Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	D3203
Percent VMA in Compacted Mixture	MS-2

AC Determination - Select at least one of the two methods

Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	D2172
Asphalt Content of Hot-Mix Asphalt by Ignition Method	D6307

Gradation of Extracted Aggregate

Mechanical Size Analysis of Extracted Aggregate	D5444
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Additional Asphalt Certification Programs

**2. Asphalt Mix Compliance Laboratory Superpave Method (Type B)
Must also participate in ALL of the Basic Asphalt Certification, Number 1 above**

Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Gyrotory Compactor	T312
Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	D2726
Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	D2041
Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	D3203

**3. Asphalt Mix Design Laboratory Marshall Method (Type A)
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- μ m (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
Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	T283

**4. Asphalt Mix Design Laboratory Superpave Method (Type A)
Must also participate in ALL of the above tests, Numbers 1, 2 and 3 above**

Superpave Volumetric Design for Asphalt Mixtures	R35
Mixture Conditioning of Hot Mix Asphalt (HMA)	R30
Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage	T283
Uncompacted Void Content of Fine Aggregate	T304
Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures (if required)	T305
Sand Equivalent Value of Soils and Fine Aggregate	D2419

**5. Laboratories Carrying Out Penetration Testing of Recovered Asphalt Cement (Type E)
Must also participate at least in the Basic Asphalt Certification, Number 1 above**

Penetration of Bituminous Materials	D5
Recovery of Asphalt from Solution by Abson Method Or	D1856
Recovery of Asphalt from Solution Using the Rotary Evaporator	D5404

**6. Laboratories Testing Performance Graded Asphalt Cement (Type F)
Must also participate at least in the Basic Asphalt Certification, Number 1 above**

Grading or Verifying the Performance Grade (PG) of an Asphalt Binder	R29
Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)	T240
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