

## BC MB NB NL NS SK Asphalt Laboratory Certification Tests (Updated Nov. 2016)

Certification Programs - Select (✓) as applicable	
<b>1. Asphalt Mix Compliance - Marshall Method (Type B)</b>	<b>ASTM/AASHTO</b>
<b>Basic Asphalt Certification</b>	
Preparation of Marshall Specimens (from bituminous mixes)	D6926
Bulk Relative Density of Compacted Bituminous Mixtures	D2726
Using Paraffin Coated Specimens, if required	D1188
Using Automatic Vacuum Sealing, if required	D6752
Marshall Stability and Flow of Bituminous Mixtures	D6927
Theoretical Maximum Specific Gravity and Density	D2041
Percent Air Voids in Compacted Dense Bituminous Pavement Mixtures	D3203
Percent Voids in Mineral Aggregates (VMA) in Compacted Paving Mixtures	AI - MS2
<b>AC Determination Methods - Select at least one of the two</b>	
Quantitative Extraction of Asphalt Cement and Sieve Analysis Using Solvent Methods	D2172
Asphalt Content of Hot Mix Asphalt by Ignition Method and Sieve Analysis	D6307

### Additional Asphalt Certification Programs

**2. Asphalt Mix Compliance - Superpave Method (Type B).** Must also participate in the basic asphalt certification #1 above

Density of Hot Mix Asphalt (HMA) Specimens by Gyratory Compactor	T312
Bulk Specific Gravity of Compacted Hot Mix Asphalt (HMA)	T166/D2726
Theoretical Maximum Specific Gravity and Density of Bituminous Mixtures	D2041
Air Voids	T269/D3203

**3. Asphalt Mix Design Laboratory - Marshall Method (Type A).** Must also participate in the full Mix Compliance Option in #1 above

Preparation of Marshall Specimens (from basic components)	D6926
Resistance of Compacted Hot Mix Asphalt to Moisture Induced Damage	T283
Dry Preparation of Aggregates for the Determination of Physical Constants	C702
Mineral Finer than 75 µm Sieve in Mineral Aggregates by Washing	C117
Relative Density and Absorption of Coarse Aggregate	C127
Relative Density and Absorption of Fine Aggregate	C128
Percent Crushed Particles in Processed Coarse Aggregate	D5821
Percent Flat and Elongated Particles in Coarse Aggregate	D4791

**4. Asphalt Mix Design Laboratory - Superpave Method (Type A).** Must also participate in all tests in # 1, 2 and 3 above

Mixture Conditioning of Hot Mix Asphalt (HMA)	R30
Sand Equivalent Test (Plastic Fines in Graded Aggregate & Soils)	T176/D2419
Uncompacted Void Content of Fine Aggregate (Fine Aggregate Angularity)	T304

**5. Penetration of Recovered Asphalt Cement (Type E).** Must also participate at least in the basic asphalt certification #1 above

Penetration of Asphalt Cement	D5
Recovery of Asphalt from Solution by Abson Method <b>OR</b>	D1856
Recovery of Asphalt from Solution Using the Rotary Evaporation Method	D5404

**6. Performance Grading of Asphalt - (Type F).** Must also participate in the Basic Asphalt Certification in #1 Above

Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)	R28
Effect of Heat & Air on a Moving Film of Asphalt Binder, RTFO	T240
Flexural Creep Stiffness of Asphalt Binder Using Bending Beam Rheometer	T313
Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer	T315
Viscosity of Asphalt Binder Using Rotational Viscometer	T316