

# ON and QC Aggregate Laboratory Certification Program (Updated October 2017)

Certification Programs	
<b>Type C - Aggregate Quality Control</b>	
<b>1. Basic Aggregate Certification</b>	<b>MTO/ASTM</b>
Dry Preparation of Aggregates/Practice for Reducing Samples of Aggregate to Testing Size	LS -600
Materials Finer than 75µm Sieve in Mineral Aggregates by Washing	LS-601/C117
Sieve Analysis of Aggregates	LS-602
Percent Crushed Particles in Processed Coarse Aggregate	LS-607
Percent Flat and Elongated Particles in Coarse Aggregate	LS-608
Amount of Asphalt-Coated Particles in Coarse Aggregate	LS-621
(Participation is mandatory for all CCIL certified aggregate labs)	
<b>Additional Aggregate Certification Programs</b>	
<b>Must also participate in Basic Aggregate Certification, Number 1 above</b>	
<b>Type D - Advanced Aggregate Testing</b>	
(Type D tests are optional. Select each one individually when completing an application for certification)	
<b>2. Aggregate Tests</b>	<b>MTO/ASTM/CSA/AASHTO</b>
Scaling Resistance	LS-412
Los Angeles Abrasion and Impact	LS-603/C131&535
Relative Density of Coarse Aggregate	LS-604/C127
Relative Density of Fine Aggregate	LS-605/T84
Soundness of Aggregates by MgSO <sub>4</sub>	LS-606
Petrographic Analysis of Coarse Aggregate	LS-609
Organic Impurities in Concrete Sand	LS-610/C40
Insoluble Residue of Carbonate Aggregates	LS-613
Freezing & Thawing of Coarse Aggregate	LS-614
Determination of Alkali-Carbonate Reactivity	LS-615
Two-Face Per Cent Crushed Particles	LS-617
Micro-Deval Abrasion of Coarse Aggregate	LS-618
Micro-Deval Abrasion of Fine Aggregate	LS-619
Accelerated Mortar Bar Test	LS-620
Resistance of Concrete to Rapid Freezing and Thawing	C666
<b>3. Superpave Aggregate Consensus Properties</b>	
Sand Equivalent Test	AASHTO T176/D2419
Uncompacted Void Content of Fine Aggregate	LS-629/AASHTO T304
Flat and Elongated Particles in Coarse Aggregate	D4791
The Percentage of Fractured Particles in Coarse Aggregate	D5821
<b>4. Soil Tests</b>	
Moisture Density Relationship of Soils Using 2.5 kg Rammer and 305 mm Drop/Compaction Characteristics of Soils Using Standard Effort	LS-706/D698
Particle Size Analysis of Soils	LS-702
Liquid Limit, Plastic Limit & Plasticity Index of Soils	LS-703,704/D4318
Specific Gravity of Soil Solids	LS-705
Determination of Permeability of Granular Soils	LS-709