

# Program Overview

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# What is Accreditation?

- A formal recognition of competency by a 3<sup>rd</sup> party
- Quality management system
- Records of training, competency evaluations, equipment maintenance, equipment calibrations, etc.
- Quality system used to build confidence in materials testing by following a paper trail



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# Agencies Specifying AASHTO Accreditation

# AASHTO Accreditation

- Assessment
- Proficiency Testing (PSP/Round Robin)
- Accreditation criteria





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# Assessment

- Every ~22-26 months
- Comprehensive review of testing procedures and equipment
- Evaluation of quality system criteria (if seeking accreditation)



# Emulsion Tests

AASHTO or Other	ASTM	Test Name	Cost
✓ T59	✓ D6929	Freezing	\$140.00
✓ T59	✓ D6930	Settlement and Storage Stability	\$235.00
✓ T59	✓ D6933	Sieve Test	\$140.00
✓ T59	✓ D6934	Residue by Evaporation	\$140.00
✓ T59	✓ D6935	Cement Mixing	\$140.00
✓ T59	✓ D6936	Demulsibility	\$140.00
✓ T59	✓ D6937	Density	\$140.00
✓ T59	✓ D6997	Residue by Distillation	\$235.00
✓ T59	✓ D6998	Aggregate Coating	\$140.00
✓ T59	✓ D7402	Particle Charge	\$140.00
✓ T59	✓ D7496-D88	Saybolt Viscosity at 25°C (77°F)	\$140.00
✓ T59	✓ D7496-D88	Saybolt Viscosity at 50°C (122°F)	\$140.00
	✓ D7000	Sweep Test of Bituminous Emulsion Surface Treatment	\$235.00

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## Aggregate Tests

AASHTO or Other	ASTM	Test Name	Cost
✓ R76	✓ C702	Reducing Samples of Aggregate to Test Size	\$140.00
✓ T11	✓ C117	Material Finer Than 75- $\mu$ m (No. 200) Sieve	\$140.00
✓ T19	✓ C29	Bulk Density and Voids in Aggregate	\$140.00
✓ T27	✓ C136	Sieve Analysis of Aggregates	\$235.00
✓ T37	✓ D546	Sieve Analysis of Mineral Filler	\$140.00
✓ T84	✓ C128	Fine Aggregate Specific Gravity and Absorption	\$235.00
✓ T85	✓ C127	Coarse Aggregate Specific Gravity and Absorption	\$140.00
✓ T96	✓ C131	Abrasion of Coarse Aggregate	\$235.00
✓ T104	✓ C88	Sulfate Soundness of Aggregates	\$235.00
✓ T112	✓ C142	Clay Lumps and Friable Particle Percentage	\$140.00
✓ T113	✓ C123	Lightweight Pieces in Aggregate	\$140.00
✓ T176	✓ D2419	Sand Equivalent Test	\$235.00
✓ T210	✓ D3744	Aggregate Durability Index	\$235.00
✓ T255	✓ C566	Moisture Content of Aggregate by Oven Drying	\$140.00
✓ T304	✓ C1252	Uncompacted Void Content of Fine Aggregate	\$140.00
✓ T327	✓ D6928	Resistance to Abrasion by Micro-Deval (Coarse Agg)	\$235.00
✓ T335	✓ D5821	Fractured Particles in Coarse Aggregate	\$140.00
	✓ C535	Abrasion of Large-Size Coarse Aggregate	\$235.00
	✓ D4791	Flat, Elongated, or Flat and Elongated Particles	\$140.00
	✓ D7370	Density / Absorption of Agg using Vacuum Saturation	\$285.00
	✓ D7428	Resistance to Abrasion by Micro-Deval (Fine Agg)	\$235.00



# Emulsion Tests Included in PSP

AASHTO	ASTM	TITLE
T59	D6934	Residue by Evaporation of Emulsified Asphalt
T59	D6997	Residue by Distillation of Emulsified Asphalt
T59	D7496	Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer

## Tests on Residue

T44	D2042	Solubility of the Residue in Trichloroethylene
T49	D5	Penetration of the Residue

\*\*Adding Paddle Viscometer Soon





<i><b>Sample Type</b></i>	<i><b>2014/2015</b></i>	<i><b>2015/2016</b></i>	<i><b>2016/2017</b></i>	<i><b>Enrollment Adjustment (Current CY)</b></i>	<i><b>% Change</b></i>
<i><b>Performance Graded Asphalt Binder</b></i>	359	365	371	<b>6</b>	<b>1.6</b>
<i><b>Viscosity Graded Asphalt Binder</b></i>	180	188	189	<b>1</b>	<b>0.5</b>
<i><b>Emulsified Asphalt</b></i>	213	237	246	<b>9</b>	<b>3.8</b>
<i><b>Coarse Aggregate</b></i>	1835	1903	1905	2	0.1
<i><b>Fine Aggregate</b></i>	1858	1876	1902	26	1.4
<i><b>Asphalt Mixture Solvent Extraction</b></i>	359	366	364	-2	-0.5
<i><b>Asphalt Mixture Ignition Oven</b></i>	1048	1077	1104	27	2.5
<i><b>Asphalt Mixture Marshall Design</b></i>	795	789	802	13	1.6
<i><b>Asphalt Mixture Hveem Design</b></i>	215	210	229	19	9.0
<i><b>Asphalt Mixture Gyratory Design</b></i>	831	852	885	33	3.9
<i><b>Soil Classification and Compaction</b></i>	1747	1775	1803	28	1.6
<i><b>Soil Resistance Value (R-Value)</b></i>	157	150	155	5	3.3
<i><b>California Bearing Ratio (CBR)</b></i>	554	569	582	13	2.3
<i><b>Paint</b></i>	69	70	71	1	1.4
<i><b>Slurry and Micro Systems</b></i>	0	16	23	<b>7</b>	<b>43.8</b>
<i><b>TOTAL</b></i>	10220	10443	10631	188	1.8
<i><b>Overall Percent Change (14/15 thru 16/17)</b></i>				<b>3.9%</b>	

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# Accreditation

- Current Stats for Emulsion Labs:
  - 50 Central DOT
  - 3 Federal Facility
  - 4 Branch/Other Gov't (local municipality)
  - 75 independent/commercial/producer
  - =132 Total Accredited labs
- (but there are 246 participants in PSP!)
- ~1900 labs total

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# Accreditation



# Other Materials

We accredit for 650+ tests for materials including:

- Soil
- Aggregate
- HMA
- Asphalt Binder
- Sprayed Fire-resistive material
- Iron and Steel
- Pavement Preservation
- Cement (CCRL)
- Concrete (CCRL)
- Masonry (CCRL)
- Brick (CCRL)
- Chemical Analysis (CCRL)
- Slag Cement (CCRL)
- Pozzolan (CCRL)



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## Newsletter Articles

- [Seven Steps for a "Perfect" On-Site Assessment](#)
- [Get to the Root of the Problem: Root Cause Analysis \(RCA\) Explained](#)
- [Proficiency Sample Ratings: Being Average Has Never Been So Good](#)
- [A Beginner's Guide to AASHTO Accreditation](#)
- [Maintaining AASHTO Accreditation, Maintaining Quality](#)
- [Internal Auditing: Just the Facts, Ma'am!](#)
- [The Road to Developing an Effective Quality Management System \(QMS\): Part 1 - Why Bother?](#)

