Certificate of Accreditation

AASHTO ACCREDITED

American Association of State Highway and Transportation Officials

AASHTO

Cesare, Inc.

dba

CMT Technical Services (Colorado)

in

Centennial, Colorado, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

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Scope of AASHTO Accreditation for:

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Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	09/15/1999
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	01/10/2011
D3666 (Aggregate)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3666 (Asphalt Mixture)	Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials	01/10/2011
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Asphalt Mixture)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	01/10/2011

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Asphalt Mixture

Standard:		Accredited Since:
R30	Mixture Conditioning of Hot Mix Asphalt (HMA)	03/27/2019
R35	Superpave Volumetric Design for Hot Mix Asphalt (HMA)	02/25/2021
R47	Reducing Samples of Hot-Mix Asphalt to Testing Size	02/27/2015
R68	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/17/2012
T30	Mechanical Analysis of Extracted Aggregate	01/15/2002
T164 (Mineral Matter Not Determined)	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA) - Plant Control	01/15/2002
T166	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	02/25/2021
T209	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	01/15/2002
T245	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/17/2012
T269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	02/25/2021
T283	Resistance of Compacted Mixtures to Moisture Induced Damage	02/25/2021
T308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	01/15/2002
T312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	01/15/2002
T329	Moisture Content of Hot-Mix Asphalt (HMA) by Oven Method	03/27/2019
T355	Density of Bituminous Concrete In Place by Nuclear Methods	03/27/2019
D2041	Maximum Specific Gravity of Hot Mix Asphalt Paving Mixtures	01/15/2002
D2172 (Mineral Matter Not Determined)	Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA) - Plant Control	01/15/2002
D2726	Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens	02/25/2021
D2950	Density of Bituminous Concrete In Place by Nuclear Methods	05/17/2012
D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	02/25/2021
D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens	05/25/2022
D4867	Resistance of Compacted Mixtures to Moisture Induced Damage	02/25/2021
D5444	Mechanical Analysis of Extracted Aggregate	01/15/2002

Asphalt Mixture (Continued)

Standard:		Accredited Since:
D6307	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method	01/15/2002
D6925	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor	01/15/2002
D6926	Preparation of Asphalt Mixtures by Means of the Marshall Apparatus	05/17/2012
D6927	Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus	05/17/2012
CP-L 5106	Resistance to Deformation by Hveem Apparatus (Colorado)	05/17/2012
CP-L 5115	HMA Superpave Gyratory Compactor (Colorado)	05/17/2012

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Soil

Standard:		Accredited Since:
R58	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/27/2019
R74	Wet Preparation of Disturbed Soil Samples for Test	03/09/2022
T88	Particle Size Analysis of Soils by Hydrometer	12/30/2016
T89	Determining the Liquid Limit of Soils (Atterberg Limits)	09/15/1999
T90	Plastic Limit of Soils (Atterberg Limits)	09/15/1999
T99	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	09/15/1999
T100	Specific Gravity of Soils	12/30/2016
T134	Moisture-Density Relations of Soil-Cement Mixtures	12/30/2016
T135	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	04/21/2025
T136	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	04/21/2025
T180	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/15/1999
T190	Resistance R-Value and Expansion Pressure of Compacted Soils	09/15/1999
T193	The California Bearing Ratio	03/27/2019
T208	Unconfined Compressive Strength of Cohesive Soil	09/15/1999
T216	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	02/27/2015
T236	Direct Shear Test of Soils Under Consolidated Drained Conditions	05/17/2012
T265	Laboratory Determination of Moisture Content of Soils	09/15/1999
T267	Determination of Organic Content in Soils by Loss on Ignition	03/09/2022
T288	Minimum Soil Resistivity	02/27/2015
T289	pH of Soils for Corrosion Testing	12/30/2016
T310	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/15/1999
D421	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	03/27/2019
D422	Particle Size Analysis of Soils by Hydrometer	12/30/2016

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Soil (Continued)

Standard:		Accredited Since:
D558	Moisture-Density Relations of Soil-Cement Mixtures	12/30/2016
D559	Wetting-and-Drying Test of Compacted Soil-Cement Mixtures	04/21/2025
D560	Freezing-and-Thawing Tests of Compacted Soil-Cement Mixtures	04/21/2025
D698	The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	02/24/2011
D854	Specific Gravity of Soils	03/27/2019
D1140	Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	09/15/1999
D1557	Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	09/15/1999
D1633	Compressive Strength of Molded Soil-Cement Cylinders	05/25/2022
D1883	The California Bearing Ratio	03/27/2019
D2166	Unconfined Compressive Strength of Cohesive Soil	09/15/1999
D2216	Laboratory Determination of Moisture Content of Soils	09/15/1999
D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading	02/27/2015
D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	09/15/1999
D2844	Resistance R-Value and Expansion Pressure of Compacted Soils	09/15/1999
D2974	Determination of Organic Content in Soils by Loss on Ignition	03/09/2022
D3080 (4000 lb/ft-sq or Greater Normal Stress)	Direct Shear Test of Soils Under Consolidated Drained Conditions (with Exceptions)	04/21/2025
D4253	Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	12/30/2016
D4254	Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	03/08/2017
D4318	Determining the Liquid Limit of Soils (Atterberg Limits)	09/15/1999
D4318	Plastic Limit of Soils (Atterberg Limits)	09/15/1999
D4546	One-Dimensional Swell or Settlement Potential of Cohesive Soils	09/15/1999
D4718	Oversize Particle Correction	02/27/2015
D4972	pH Testing of Soils	**Suspended**

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Soil (Continued)

Standard:		Accredited Since:
D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	02/27/2015
D6938	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	09/15/1999
D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis	05/25/2022

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Aggregate

Standard:		Accredited Since:
R76	Reducing Samples of Aggregate to Testing Size	09/15/1999
R90	Sampling Aggregate	02/27/2015
T11	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	09/15/1999
T19	Bulk Density (“Unit Weight”) and Voids in Aggregate	09/15/1999
T21	Organic Impurities in Fine Aggregates for Concrete	09/15/1999
T27	Sieve Analysis of Fine and Coarse Aggregates	09/15/1999
T84	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/15/1999
T85	Specific Gravity and Absorption of Coarse Aggregate	09/15/1999
T96	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/17/2024
T100 (Mineral Filler)	Specific Gravity of Mineral Filler on Asphalt Mixture Designs	03/27/2019
T104	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	02/27/2015
T112	Clay Lumps and Friable Particles in Aggregate	09/15/1999
T113	Lightweight Pieces in Aggregate	12/30/2016
T176	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/15/1999
T255	Total Moisture Content of Aggregate by Drying	09/15/1999
T304	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/15/1999
T327	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	03/27/2019
T335	Determining the Percentage of Fractured Particles in Coarse Aggregate	02/27/2015
C29	Bulk Density (“Unit Weight”) and Voids in Aggregate	09/15/1999
C40	Organic Impurities in Fine Aggregates for Concrete	09/15/1999
C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	09/15/1999
C117	Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	09/15/1999
C123	Lightweight Pieces in Aggregate	12/30/2016

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Aggregate (Continued)

Standard:		Accredited Since:
C127	Specific Gravity and Absorption of Coarse Aggregate	09/15/1999
C128	Specific Gravity (Relative Density) and Absorption of Fine Aggregate	09/15/1999
C131	Resistance to Abrasion of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/17/2024
C136	Sieve Analysis of Fine and Coarse Aggregates	09/15/1999
C142	Clay Lumps and Friable Particles in Aggregate	09/15/1999
C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	04/17/2024
C566	Total Moisture Content of Aggregate by Drying	09/15/1999
C702	Reducing Samples of Aggregate to Testing Size	09/15/1999
C1252	Uncompacted Void Content of Fine Aggregate (Influenced by Shape, Texture, and Grading)	09/15/1999
D75	Sampling Aggregate	02/27/2015
D2419	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	09/15/1999
D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	02/27/2015
D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate	02/27/2015
D6928	Resistance to Abrasion by Micro-Deval (Coarse Aggregate)	03/27/2019
D7428	Resistance to Abrasion by Micro-Deval (Fine Aggregate)	03/27/2019

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Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/13/2013
R39	Making and Curing Concrete Test Specimens in the Laboratory	08/13/2013
R60	Sampling Freshly Mixed Concrete	11/01/2001
R100 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/01/2001
R100 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/01/2001
R115	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/17/2024
T22	Compressive Strength of Cylindrical Concrete Specimens	11/01/2001
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	11/01/2001
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/01/2001
T119	Slump of Hydraulic Cement Concrete	11/01/2001
T121	Density (Unit Weight), Yield, and Air Content of Concrete	11/01/2001
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	11/01/2001
T160	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	11/01/2001
T198	Splitting Tensile Strength of Cylindrical Concrete Specimens	11/01/2001
T231 (8000 psi and below)	Capping Cylindrical Concrete Specimens	04/17/2024
T277	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	11/01/2001
T303	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	04/05/2016
T309	Temperature of Freshly Mixed Portland Cement Concrete	11/01/2001
C31 (Beams)	Making and Curing Concrete Test Specimens in the Field	11/01/2001
C31 (Cylinders)	Making and Curing Concrete Test Specimens in the Field	11/01/2001
C39	Compressive Strength of Cylindrical Concrete Specimens	11/01/2001
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	11/01/2001
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/01/2001

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Concrete (Continued)

Standard:		Accredited Since:
C138	Density (Unit Weight), Yield, and Air Content of Concrete	11/01/2001
C143	Slump of Hydraulic Cement Concrete	11/01/2001
C157	Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete	11/01/2001
C172	Sampling Freshly Mixed Concrete	11/01/2001
C192	Making and Curing Concrete Test Specimens in the Laboratory	08/13/2013
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	11/01/2001
C305	Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	04/17/2024
C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	04/17/2024
C496	Splitting Tensile Strength of Cylindrical Concrete Specimens	11/01/2001
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/13/2013
C617 (8000 psi and below)	Capping Cylindrical Concrete Specimens	04/17/2024
C779	Abrasion Resistance of Horizontal Concrete Surfaces	08/13/2013
C1064	Temperature of Freshly Mixed Portland Cement Concrete	11/01/2001
C1138	Abrasion Resistance of Concrete (Underwater Method)	08/13/2013
C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	11/01/2001
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/01/2001
C1260	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	09/15/1999
C1542	Measuring Length of Concrete Cores	04/05/2016
C1567	Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)	09/15/1999

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Masonry

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/13/2013
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	08/13/2013
C780 (Annex 1)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration	04/19/2021
C780 (Annex 6 - Cubes)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cubes	04/17/2024
C780 (Annex 6 - Cylinders)	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength of Cylinders	04/05/2016
C1019	Sampling and Testing Grout	11/08/2010