
CERTIFIED TECHNICIANS QUALIFICATIONS

Tests and Procedures the Certified Technician is qualified to perform for each level of certification.

AGGREGATE SAMPLER

- [IM 204](#) - Inspection of Construction Project Sampling & Testing (when material is incorporated)
- [IM 209, App. C](#) - Aggregate Specification Limits & Sampling & Testing Guide (when material is produced)
- [IM 301](#) - Aggregate Sampling Methods
- [IM 336](#) – Methods of Reducing Aggregate Field Samples to Test Samples

AGGREGATE TECHNICIAN

- [IM 204](#) - Inspection of Construction Project Sampling & Testing (when material is incorporated)
- [IM 209, App. C](#) - Aggregate Specification Limits & Sampling & Testing Guide (when material is produced)
- [IM 210](#) – Production of Certified Aggregate From Reclaimed Roadways
- [IM 216](#) - Guidelines for Verifying Certified Testing Results
- [IM 301](#) - Aggregate Sampling Methods
- [IM 302](#) - Sieve Analysis of Aggregates
- [IM 306](#) - Determining the Amount of Material Finer Than #200 (75µm) Sieve in Aggregate
- [IM 307](#) - Determining Specific Gravity of Aggregate
- [IM 308](#) - Determining Free Moisture & Absorption of Aggregate
- [IM 336](#) - Methods of Reducing Aggregate Field Samples to Test Samples
- [IM 344](#) - Determining the Amount of Shale in Fine Aggregate
- [IM 345](#) - Determining the Amount of Shale in Coarse Aggregate
- [IM 368](#) – Determining the Amount of Clay Lumps & Friable Particles in Coarse Aggregate
- [IM 409](#) – Source Approvals for Aggregate

HMA BASIC TESTER (This is for Provisional Certification Only)

- [IM 321](#) - Method of Test for Compacted Density of Hot Mix Asphalt (HMA) (Displacement Method)
- [IM 322](#) - Method of Sampling Uncompacted Hot Mix Asphalt
- [IM 323](#) - Method of Sampling Asphaltic Materials
- [IM 325G](#) - Method of Test for Determining the Density of Hot Mix Asphalt (HMA) Using the Superpave Gyratory Compactor (SGC)
- [IM 350](#) - Maximum Specific Gravity of Hot Mix Asphalt (HMA) Mixtures
- [IM 357](#) - Preparation of Hot Mix Asphalt (HMA) Mix Samples for Test Specimens
- All forms must be signed by an HMA I or HMA II certified technician

HMA SAMPLER

- [IM 320](#) – Method of Sampling Compacted Asphalt Mixtures
- [IM 321](#) – Method of Test for Compacted Density of Hot Mix Asphalt (HMA) (Displacement Method)
- [IM 322](#) - Method of Sampling Uncompacted Hot Mix Asphalt

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- [IM 323](#) - Method of Sampling Asphaltic Materials

LEVEL I HMA

- [IM 204](#) - Inspection of Construction Project Sampling & Testing
- [IM 208](#) - Materials Laboratory Qualification Program
- [IM 216](#) - Guidelines for Verifying Certified Testing Results
- [IM 320](#) - Method of Sampling Compacted Asphalt Mixtures
- [IM 321](#) - Method of Test for Compacted Density of Hot Mix Asphalt (HMA) (Displacement Method)
- [IM 322](#) - Method of Sampling Uncompacted Hot Mix Asphalt
- [IM 323](#) - Method of Sampling Asphaltic Materials
- [IM 325G](#) - Method of Test for Determining the Density of Hot Mix Asphalt (HMA) Using the Superpave Gyratory Compactor (SGC)
- [IM 337](#) - Determining Thickness of Completed Courses of Base, Subbase, & Hot Mix Asphalt
- [IM 350](#) - Maximum Specific Gravity of Hot Mix Asphalt (HMA) Mixtures
- [IM 357](#) - Preparation of Hot Mix Asphalt (HMA) Mix Samples for Test Specimens
- [IM 501](#) - Asphaltic Terminology, Equations & Example Calculations
- [IM 508](#) - Hot Mix Asphalt (HMA) Plant Inspection
- [IM 509](#) - Tank Measurement & Asphalt Cement Content Determination
- [IM 511](#) - Control of Hot Mix Asphalt (HMA) Mixtures

LEVEL II HMA

- [IM 380](#) - Vacuum-Saturated Specific Gravity & Absorption of Combined or Individual Aggregate Sources
- [IM 510](#) - Method of Design of Hot Mix Asphalt (HMA) Mixes
- AASHTO T176 - Plastic Fines in Graded Aggregate & Soils by use of Sand Equivalent Test
- AASHTO T304 - Uncompacted Void Content of Fine Aggregate
- ASTM D 4791 - Flat Particles, Elongated Particles, or Flat & Elongated Particles in Coarse Aggregate
- AASHTO T283 Resistance of Compacted Hot Mix Asphalt (HMA) to Moisture-Induced Damage

LEVEL I PCC

- [IM 204](#) - Inspection of Construction Project Sampling & Testing
 - [IM 208](#) - Materials Laboratory Qualification Program
 - [IM 216](#) - Guidelines for Verifying Certified Testing Results
 - [IM 315](#) - Method of Protecting, Curing, Making & Testing Concrete Cylinders
 - [IM 316](#) - Flexural Strength of Concrete
 - [IM 317](#) - Slump of Hydraulic Cement Concrete
 - [IM 318](#) - Air Content of Freshly-Mixed Concrete by Pressure
 - [IM 327](#) - Sampling Freshly-Mixed Concrete
 - [IM 328](#) - Making, Protecting, and Curing Concrete Flexural Specimens
 - [IM 340](#) - Weight Per Cubic Foot, Yield, & Air Content (Gravimetric) of Concrete
 - [IM 347](#) - Measuring Length of Drilled Concrete Cores
 - [IM 383](#) - Testing the Strength of PCC Using the Maturity Method
 - [IM 385](#) - Temperature of Freshly-Mixed Concrete
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- [IM 525](#) - Designing Flowable Mortar
- AASHTO T97 - Third Point Loading

LEVEL II PCC

- [IM 527](#) - Paving Plant Inspection
- [IM 528](#) - Structural Concrete Plant Inspection
- [IM 529](#) - PC Concrete Proportions

LEVEL III PCC

- [IM 530](#) - Quality Management & Acceptance of PC Concrete Pavement
- [IM 531](#) - Test Method for Combining Aggregate Gradations
- [IM 532](#) - Aggregate Proportioning Guide for Portland Cement Concrete Pavement

PRESTRESS

- [IM 570](#) - Precast & Prestressed Concrete Bridge Units

RIDE QUALITY

- [IM 341](#) - Determining Pavement & Bridge Ride Quality

SOILS

- [IM 309](#) – Determining Standard Proctor Moisture Density Relationship of Soils
- [IM 312](#) – Sampling of Soils for Construction Project
- [IM 335](#) – Determining Moisture Content of Soils
- ASTM D-2937 – Field density by drive-cylinder method