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## CERTIFIED TECHNICIANS QUALIFICATIONS

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

### **LEVEL I AGGREGATE**

- [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

### **LEVEL II AGGREGATE**

- [IM 216](#) - Guidelines for Verifying Certified Testing Results
- [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

### **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 383](#) - Testing the Strength of PCC Using the Maturity Method
- [IM 385](#) - Temperature of Freshly-Mixed Concrete
- [IM 525](#) - Designing Flowable Mortar
- Iowa 410-B - Method of Test for Flow of Grout Mixtures
- 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

## **HMA SAMPLER**

- [IM 322](#) - Method of Sampling Uncompacted Hot Mix Asphalt
- [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)
- [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

## **PROFILOGRAPH**

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

## **PRESTRESS**

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

## **SOILS**

- Test Method No. Iowa 103-D and AASHTO T-99 – Moisture-Density Relationship of Soils (Standard Proctor)
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- ASTM D-2937 – Field density by drive-cylinder method
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- ASTM D-4643 – Moisture content determination by microwave
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- AASHTO T-265 – Moisture content determination by oven