



2010 Fall/Winter Concrete Certification Class Schedule

ACI Strength Testing Technician

September 1 - 2, 2010
December 1 - 2, 2010

MDOT District 1 Lab, Tupelo, MS
MDOT District 6 Lab, Hattiesburg, MS

MDOT Class 1 (ACI Grade 1 Field Testing Technician)

October 5 - 6, 2010

Mississippi Law Enforcement Officers'
Training Academy, Pearl, MS

MDOT Class 2 (ACI Aggregate Testing Technician Level 1)

November 2 - 3, 2010

MDOT Central Lab, Jackson, MS

General Class Information

NEW Online Registration: Now available at www.mississippiconcrete.com. Pay online by credit card and receive immediate email confirmation of your registration.

Payment/Confirmation: Class spot and registration is not reserved until payment received.

Study Materials:

Study Materials are mailed out about 4 weeks prior to the class.

Please review carefully our registration requirements and cancellation policy on the registration form.

Students are responsible for their own accommodations & meals.

Bring the following items to each course:

Current Photo ID
Study Materials (mailed before course upon receipt of payment)
Calculator and Pencils

Cost:

\$400 MCIA Members/
MDOT or State Aid Employees
\$500 Non-Members



ACI Concrete Strength Testing Technician

This program requires a working knowledge of the following ASTM Standards:

- C 617** Capping Cylindrical Specimens
- C 1231** Unbonded Caps for Concrete Cylinders
- C 39** Compressive Strength of Cylindrical Concrete Specimens
- C 78** Flexural Strength of Concrete

ACI will only grant certification to those applicants who have a passing grade on the ACI written examination as well as successful completion of the ACI performance examination. The performance examination requires actual demonstrations of the required ASTM Standards.

Space is limited to 20 per class on a first come, first served basis.

This is now a two-day course which will comprise one full day of classroom instruction followed by a day for performance and written testing.

This course is a pre-requisite for MDOT Class 3.

MDOT Class 1 ~ ACI Concrete Field Testing Technician, Grade 1

This class covers field testing of fresh concrete. ACI Grade 1 certification is valid for five years and then must be renewed. Grade 1 certification covers the following procedures:

ASTM C172	Sampling
ASTM C143	Slump
ASTM C138	Unit Weight
ASTM C173	Air Content Volumetric Method
ASTM C231	Air Content Pressure Method
ASTM C31	Molding Cylinders
ASTM C1064	Temperature

Space is limited to 150 participants. This two-day course involves a full day of classroom instruction. The following day will start with written testing and will then move to the MDOT Whitfield Project Office for field testing. Certification is only granted to those who pass both written and performance testing. This course is a pre-requisite for MDOT Class 3.



MDOT Class 2 ~ ACI Aggregate Testing Technician, Level 1

ACI Aggregate Testing, also called MDOT Class 2, is for a technician performing any of the following tests on aggregates for concrete:

- Sampling Aggregates
- Reducing Samples of Aggregate to Testing Size
- Materials Finer than No. 200 Sieve in Mineral Aggregates by Washing
- Sieve Analysis of Fine & Coarse Aggregates
- Specific Gravity & Absorption of Coarse/Fine Aggregate
- Total Moisture Content of Aggregate by Drying
- Organic Impurities in Fine Aggregate

Space is limited to 20 per class on a first come, first served basis.

This course is a pre-requisite for MDOT Class 3.

MDOT Class 3 ~ MDOT QC/QA Concrete Technician

Principles of Concrete Mixture Design – 804.02.10

- ♦ Master Proportion Table For Structural Concrete
- ♦ Previous Field Experience – 804.02.10.1.1
- ♦ Laboratory Trial Mixtures – 804.02.10.1.2
- ♦ Mixture Design Procedure – ACI 211
- ♦ Calculating Batch Weights

Concrete Mixture Design Submittals, Field Verification, and Adjustments

Design Submittal Requirements New Mixtures - 5.5.2

- ♦ Cementitious Material; Chemical Admixtures; Aggregate

Design Submittal Requirements Transferred Mixtures - 5.5.3

Concrete Mixture Design Field Verification and Adjustments

- ♦ Plastic Property Requirements – 5.6; Aggregate Requirements; Batching Requirements; Field Verification Submittals; Mixture Adjustments

Adjusting Concrete Mixture Designs

- ♦ Adjusting Laboratory Mixtures; Adjusting Plant Mixtures; Adjusting Mixtures at the Project Site

Special Concrete Mixtures for MDOT Projects Flowable Fill – 631

- ♦ MDOT Specifications; Mixture Design Considerations; Laboratory and Field Tests; Example Mix Design & Field Verification

Self Consolidating Concrete – 804

- ♦ MDOT Specifications; ASTM 1610 & ASTM 1611; Mixture Design Considerations; Laboratory and Field Tests; Example Mix Design & Field Verification

Drill Shafts – 803

- ♦ MDOT Specifications; Mixture Design Considerations; Laboratory and Field Tests; Example Mix Design & Field Verification

Bridge Decks – 5.5.5

- ♦ MDOT Specifications

Concrete Paving Mixtures – 501 / 504

- ♦ MDOT Specifications

Grouts – 714.11

- ♦ MDOT Specifications; Mixture Design Considerations; Laboratory and Field Tests

High Strength Mixtures

- ♦ ACI 211.4R Specifications; Mixture Design Considerations

High Early Strength Mixtures – 503

- ♦ MDOT Specifications; Mixture Design Considerations

Using Maturity to Estimate Strength & Electronic Forms Maturity Concept

- ♦ MDOT Requirements and Applications; Laboratory Tests – ASTM C 1074; Field Tests – AASHTO T 325

This three-day specialized class includes two days of classroom instruction wrapping up on day 3 with a written test. No performance test is required.

This class is open to all students but in order to receive Class 3 certification, students must also have current certification in MDOT 1, MDOT 2, and Strength Testing.

2010 Fall/Winter Certification Class Registration Form

Please complete all information ~ Use 1 form per student

Registrant Name: _____

Registrant Email: _____

Registrant Phone: _____

Company Name: _____

Company Contact: _____

Contact Email: _____

Contact Phone: _____

Company Address: _____

Company City, State, Zip: _____

Study guide & class info should be sent to:

(MDOT Employees will receive info through MDOT)

- Company Contact at Company address
- Registrant at Company address
- Registrant at alternate address below:

** Registration Requirements & Cancellation Policy **

Registration

For instant email registration confirmation, register and pay online at: www.mississippiconcrete.com

Class space is held only after receipt of completed registration form and payment. Registration is not complete until payment received. No confirmation or study guide will be sent until **payment is received by MCIA.**

Study Guides

Registrants receive one study guide with full registration. Materials as sent out ~ 4 weeks prior to class. Additional study guides are available at \$60 per book.

Cancellation Policy

10 days or more prior to class date

A \$100 penalty will apply. If study guide is returned undamaged, registrant will receive \$60 credit toward refund.

Less than 10 days prior to class date

No refund will be given. If study guide is returned undamaged, registrant will receive \$60 credit.

Registration Transfers

Registration transfers can be made within a company at any time with prior approval by MCIA. No penalty will apply. A new registration form should be completed and sent to MCIA. No new study guide will be issued.

Make checks payable and send to:

MCIA – (Administrative Office)
134 Fairmont St., Suite B
Clinton, MS 39056

Phone 601-957-5274 Fax 601-957-5679

CLASS REGISTRATION

Check all classes that apply:

(Member rate is for MCIA members and MDOT or State Aid employees)

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PAYMENT INFORMATION:

For instant email confirmation, register online:
www.mississippiconcrete.com

Check one:

- Registering by Fax, check is coming by mail
- Registering by Mail, payment is enclosed
- Registering by Fax with credit card payment

Paying by Credit Card

- Visa American Express
- Master Card Discover

Card # _____

Exp. Date: _____ Sec. Code: _____

Name on Card: _____

Billing Address: _____

Zip Code _____