



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

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LYNDO TIPPETT
SECRETARY

December 29, 2008

MEMORANDUM TO: READY MIXED CONCRETE PRODUCERS, PRECAST PRODUCERS,
PRESTRESS PRODUCERS, AND CONCRETE PIPE PRODUCERS

FROM: C. L. JONES, P.E.
STATE MATERIALS ENGINEER

SUBJECT: 2009 Concrete Certification Training

The Materials and Tests Unit will conduct Concrete Certification classes beginning in March and ending in November for the 2009 year. The certification classes offered are as follows: Concrete Field Technician, Concrete Batch Technician, and Concrete Mix Design, NCDOT Certification, and ACI Written retest. Enclosed are course descriptions, registration forms, directions to the classroom facilities, and the 2009 school schedule.

Current Department policy requires any technician that performs acceptance tests on, or accepts concrete for, NCDOT projects to possess an active NCDOT Concrete Field Technician certification. In addition, any person who batches concrete for a NCDOT project must be certified as a NCDOT Concrete Batch Technician. Concrete certifications are good for five years. Technicians with expired certifications will not be allowed to accept or batch concrete for a state project.

A registration fee is required to assist the Materials and Tests Unit with the cost of course materials and equipment. The nonrefundable fee (payable to: NCDOT Materials and Tests Unit) and registration form should be received at the following address 30 days prior to the scheduled class date:

NCDOT, Materials and Tests Unit
Attention: Abby Daniel
1801 Blue Ridge Road
Raleigh, NC 27607

Students will be enrolled on a limited first come first serve basis, "walk-ins" will not be allowed. There is a three seat limit per school for the Field Tech Concrete School. Students must be able to lift approximately 60 pounds and be physically able to perform all field tests. Please review your needs and register your personnel promptly. After registration, Materials & Tests' staff will enroll the students. Enrolled students only can attend the class. Address forms will be sent upon enrollment to the contact person submitting the registration prior to the class date requiring student's full name, home address, and the last four digits of the social security number. It is important that this form be filled out completely and returned to the Materials and Test unit. Upon receipt of the completed address form, the class study materials will be mailed to the student's home address along with student confirmation letters and directions to the classroom site. If the address information has not been received within thirty days of the start of class, the class study materials will be mailed to the contact person. Students enrolled in the Concrete Field Technician schools will receive a study guide, a CD for use with a computer, and an information card containing field performance testing information. Students

enrolled in Batch Technician and Mix Design schools will receive a study guide. Students must have a confirmation letter in order to be seated in the class. Substitutions are allowed in the Field Tech Concrete schools without prior notice. For all other Concrete School classes, substitutions must be submitted no later than one week before the class. Students substituting in all classes with the exception of Concrete Field Technician must have a reissued confirmation letter with their name. Course descriptions and schedules are enclosed, and can also be found on our web page at the following address:

www.ncdot.org/~mtu

The registration form on the web site can be transmitted electronically; however payment must be mailed along with a hard copy of the registration form to be eligible for enrollment in a class. If you have any questions concerning these matters, please contact Walton Jones, at the Materials and Tests Unit's central facility in Raleigh at (919) 733-7091, FAX number (919) 733-8742. For inquiries about receipt or replacement of certificates, please contact Abby Daniel at (919) 733-7091. Additional Field Technician Concrete schools are offered through NC State University. Please contact Roberto Nunez at (919)-515-7430 or visit their web site at the following address:

www.ce.ncsu.edu/extension/contechtraining

In an agreement with ACI Carolinas Chapter, Materials and Tests will administer the NCDOT component of Concrete Field Certification in the Raleigh and Charlotte Field Grade 1 certification schools. Registration for these schools is handled by the ACI Carolinas Chapter. For information visit the website at:

www.aci-carolinas.org/

Enclosure

CONCRETE CERTIFICATION TRAINING DESCRIPTION

CONCRETE FIELD TECHNICIAN SCHOOL: This entry-level training allows the student to become ACI and NCDOT certified. This course will include a fundamental understanding of: NCDOT Specifications, basic concepts and components of concrete, and how to complete NCDOT forms relating to concrete sampling. In addition, the student will be trained and tested on all field performance tests, which include; calibration of “Type B” air pressure meter, measurement of air content in concrete using the “Type B” air pressure meter, temperature specifications, sampling specifications, making and curing of test specimens, air content using the volumetric method (roll-a-meter), unit weight, chace indicator, and slump test. To be certified, each student must pass all field performance tests and pass the NCDOT written exam and the ACI written exam. **ALL STUDENTS WILL BE REQUIRED TO COMPLETE ALL THREE PARTS—NO EXCEPTIONS.** The cost for this school is **\$250.00** per student.

NCDOT CERTIFICATION ONLY: Individuals who are currently ACI Concrete Field Testing Technician – Grade I certified, and seek NCDOT certification only, will participate in this school and be exempted from the ACI written exam and the field performance tests portions (except for the Chace Indicator Test). **All students must present an active ACI card prior to testing.** The cost of the school if ACI certified is **\$100.00** per student.

CONCRETE BATCH TECHNICIAN: This two-day school is for the individual whose job responsibilities pertain to activity at a concrete batch plant. Subjects covered include: NCDOT specifications, plant inspections, admixtures used in concrete and their characteristics, moisture determinations, and batch weight adjustments. This school will provide a NCDOT Batch certification only. Prerequisites for the school are certified ACI Field Testing Technician Grade I **and** completion of the requirements for a Certified Concrete Field Technician. Training is conducted in a classroom setting where a basic understanding of batching operations is needed and mathematical formulas and calculations are used routinely. This school will be required of all Batchers effective January 1, 2000. A copy of the certification number **must** be submitted for every student for registration. The cost for this school is **\$100.00** per student.

CONCRETE MIX DESIGN TECHNICIAN SCHOOL: This five day advance school instructs an in depth, step by step, procedure to produce the following: ACI concrete mix designs, design variations, weight – volume relationships, and aggregate gradation. Additional subjects include: admixtures and their uses in concrete, use of Portland cement, use of fly ash in concrete, placing and curing of concrete, and related metrics in concrete. Training is conducted entirely in a classroom setting where mathematical formulas and calculations are used extensively. Prerequisites for the school are Concrete Batch Technician Certification **and** valid ACI Field Technician Grade I Certification. A copy of the certification number **must** be submitted for every student for registration. The cost for this school is **\$100.00** per student.

ACI RETEST: This one day school is strictly for those students who have completed all parts of the field school and failed the ACI written exam only. This school will review all ACI procedures and specifications needed to complete the written exam. Following the review, the written exam will be administered. The cost for this school is **\$100.00** per student.

2009 NCDOT CONCRETE CERTIFICATION REGISTRATION

FORM MUST BE FILLED OUT COMPLETELY AND PAYMENT MUST ACCOMPANY FORM OR WILL BE RETURNED TO SENDER!!

<u>1. Enrollment Information</u>

Company Name: _____

Contact Name: _____

Company Address: _____
(include zip code)

Phone No. _____

FAX No. _____

<u>2. Concrete Field Technician Registration – Maximum 3 seats per location</u>

No. Of Seats	School Date	School Location
_____	_____	_____
_____	_____	_____
_____	_____	_____

NCDOT Certification Only – Must currently be ACI Certified and include a copy of certification.

Name (First- Middle- Last)	School Date	School Location
_____	_____	_____
_____	_____	_____
_____	_____	_____

ACI Retest – Must include date & location of original Field Tech. School

Name (First- Middle- Last) School	School Date	Location Orig. Field Tech.
_____	_____	_____
_____	_____	_____
_____	_____	_____

Field Performance Retest – Must include date & location of original Field Tech. School

Name (First- Middle- Last) School Date Location Orig. Field Tech. School

_____	_____	_____
_____	_____	_____
_____	_____	_____

Batch / Mix Design – Must be “Field Certified” to attend Batch. Must be “Field Certified” and “Batch Certified” to attend Mix Design.

Name School School School NCDOT
(First-Middle-Last) (Batch, Mix) Date Location Cert.No.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

3. Fee Requirement – Must be sent with registration form

School	No. of Seat	Price Per Seat	Total
Concrete Field Tech.	_____	\$ 250.00	\$ _____
NCDOT Cert.Only	_____	\$ 100.00	\$ _____
ACI Retest	_____	\$ 100.00	\$ _____
Field Performance Retest	_____	\$ 50.00	\$ _____
Batch Tech.	_____	\$100.00	\$ _____
Mix Design Tech.	_____	\$ 100.00	\$ _____
Self Study	_____	\$ 250.00	\$ _____

- All registration forms must be submitted 30 days prior to school start date.
- The Non-refundable fee (payable to NCDOT Materials & Tests) and registration forms should be sent to the following :
 - NCDOT – Materials & Tests Unit
 - Attn. Abby Daniel
 - 1801 Blue Ridge Road
 - Raleigh, NC 27607

FACILITY DIRECTIONS

ASHEVILLE

Buncombe County Maintenance Yard

11 Old Charlotte Hwy.

Asheville, NC 28803 Phone: 828-298-0397

Take I-40 to Asheville, take EXIT # 53B to I-240, from I-240 take EXIT #8, turn onto Hwy 74A West, follow Hwy 74A west to bottom of hill and follow “Department Of Highways Maintenance Yard” sign.

ASHEVILLE

Holiday Inn Biltmore East

1450 Tunnel Road

Asheville, NC 28805 Phone: 828-298-5611

Take I-40 to Asheville, take EXIT # 55 and turn south. Travel to stoplight and turn right. Hotel is on the left.

CASTLE HAYNE

NCDOT Maintenance/Traffic Services Facility

5504 Barbados Blvd.

Castle Hayne, NC 28429 Phone: 910-341-0300

Take I-40 towards Wilmington and take exit # 414 (Castle Hayne). At bottom of ramp, turn east onto Barbados Blvd. and travel approximately ½ mile, facility is on the right side (signs are posted to facility). Classroom is located in the “Traffic Services” building.

CLEMMONS

Village Conference Center

6205 Ramada Drive

Clemmons, NC 27012 Phone: 336 766-9121

Take I-40 towards Winston Salem and take exit 184. Go South ¼ mile and turn into Village Inn Complex.

CLEMMONS WATER WORKS

Village of Clemmons Public Water department

3800 Dillon Industrial Drive

Clemmons, NC 27012

Take I-40 towards Winston Salem and take exit 184. Go South on Lewisville Clemmons Rd. Lewis ville Clemmons Rd becomes Middlebrook Drive. Turn Right onto Idols Road, the Left onto Dillon Industrial Drive.

CHARLOTTE

Mecklenburg County Maintenance Yard (Paw Creek)

6820 Rozzelles Ferry Road

Charlotte, NC 28214 Phone: 704-394-8321

Take I-85 to Charlotte, on I-85 take the Brookshire Blvd. (Hwy 16) exit headed North, travel approximately 0.5 miles, turn onto Hoskins Road traveling west, travel approximately 0.1 miles (first light) turn North onto Rozzelles Ferry Road,

travel approximately 4.5 miles, complex is located behind two story brick house (Resident Engineers office).

FAYETTEVILLE

Cumberland County Maintenance Yard

558 Gillispie Street

Fayetteville, NC 28302 Phone: 910-486-1421

Take I-95 to Fayetteville, on I-95 take the Hwy 24 exit headed West, travel on Hwy 24 until the intersection with Green Street, turn South onto Green Street, circle around the "Old Market" until intersection with Gillispie Street, follow Gillispie Street approximately 1.5 miles, look for Maintenance Yard signs, classroom is located in the "Dept. Of Hwys. Maint. Eng." Bldg.

GOLDSBORO

Wayne County Maintenance Yard

2671 US-70

Goldsboro, NC 27530 Phone: 919-731-7966

Take US-70 to Goldsboro, facility is located approximately 0.5 miles South of intersection with NC-581 & US-70.

GOLDSBORO

Comfort Suites

2613 North Park Drive

Goldsboro, NC 27534 Phone: 919 759-0098

Take US-70 to Goldsboro, take the Best Rd/ Spence Ave exit headed North-East. Travel ¼ mile, turn right onto North Park Drive.

GOLDSBORO

Wayne Community College

3000 Wayne Memorial Drive

Goldsboro, NC 27534 Phone: 919 735-5151

Take US-70 to Goldsboro, take the Wayne Memorial Drive ramp toward Wayne Community College, travel North on Wayne Memorial to Wayne Community College.

GREENVILLE

Pitt County Maintenance Yard

NC-33 & US-13/NC-11

Greenville, NC 27835 Phone:252-830-3142

Take US-264 to Greenville, outside Greenville take the US-264/Washington by-pass, take exit # 80 (US-13/NC-11) traveling South, remain on this road until the intersection with NC-33 (stoplight), the maintenance facility can be seen from this intersection, the classroom is located in the single story brick building with a sign "classroom".

GREENVILLE

City Hotel & Bistro

203 West Greenville Blvd.

Greenville, NC 27834 Phone:252-355-8300

Take US-264 to Greenville, continue into Greenville to intersection with US 13. Take US 13 South until intersection with Greenville Blvd. Turn left and travel east, hotel is on right after Greenville Convention Center.

HICKORY

Crowne Plaza
1385 Lenoir Rhyne Blvd., SE
Hickory, NC 28602 Phone: 828-323-1000
Take I-40 to Hickory, exit #125 off I-40 and turn south. The hotel is approximately ¼ mile on left.

MATTHEWS

Independence Transportation Park
12033 Unit F
East Independence Blvd.
Matthews, NC 28105 Phone: 704-845-1151
Take I-85 to I-77 to Charlotte, take I-77 South to I-277, travel Southeast on I-277 approximately 1.8 miles to US-74, travel Southeast on US-74 to the intersection with Stallings Road, travel North until intersection with Stillwell Stevens Mill Road, travel west to dead-end, turn left and look for "Unit F Conference Room". An alternate route, take I-85 to I-485 and take the Matthews exit (US-74 East). Follow the above directions from US-74 to the intersection with Stallings Road.

RALEIGH

Wake County Maintenance Yard
1301 Blue Ridge Road
Raleigh, NC 27607 Phone: 919-733-4768
Take I-40 to Raleigh, take the Wade Avenue exit, travel on Wade Ave. until the Blue Ridge Road exit, facility is located off Blue Ridge Road.

RALEIGH

Ramada Inn
1520 Blue Ridge Road
Raleigh, NC 27607 Phone: 919-832-4100
Take I-40 to Raleigh, take the Wade Avenue exit, travel on Wade Ave. until the Blue Ridge Road exit, facility is located off Blue Ridge Road.

WILKESBORO

NCDOT Roadside Environmental & Bituminous Dept. - Conference Room
302 Statesville Road
Wilkesboro, NC Phone: 336-667-9111
Take US 421 Bypass to Wilkesboro, take exit # 282 off US 421. Exit #282 is NC Hwy 115. Head North on NC 115 approximately 2.6 miles, NCDOT Equipment Complex is located on the right before the Yadkin River Bridge (across from NC Prison Unit).

WILLIAMSTON

Fairfield Inn
1071 Cattle Court
Williamston, NC 27892 Phone: 252 799-0100
Travel US-64 East to exit 512 for highway NC 125 (Prison Camp Road). Go South on NC 125 to Fairfield Inn.

WINSTON SALEM

Hawthorne Inn
420 High Street

Winston Salem, NC 27101 Phone: 336 397-8312

Travel I-40 East to Business 40 into downtown Winston Salem. Take the Cherry Street Exit(5-C) onto High Street. The hotel is on the right.

If traveling I-40 West, exit at Business 40 split (Exit 206) into downtown Winston Salem. Take the Cherry Street Exit (5-C) onto Cherry Street. Turn left at the first stop light onto First Street. Turn Left at the next stoplight onto Marshall Street. Cross over Business 40 and through the next stop light. The hotel will be on the right.