

# NRMCA

## Workforce Development



## NRMCA's Concrete Technologist Training & Certification Course "Short Course"

November 11 - 15, 2019 | Baltimore, MD (near BWI airport)

**Space is limited:** The capacity of this course is limited to 55 attendees due to size of training facility. Persons interested in attending this course are encouraged to register early.

### Course Information

**Karen Bean**

**Phone:** (240) 485-1168

**Email:** [kbean@nrmca.org](mailto:kbean@nrmca.org)

### Registration & Travel Information

**Jessica Walgenbach**

**Phone:** (240) 485-1152

**Email:** [jwalgenbach@nrmca.org](mailto:jwalgenbach@nrmca.org)

Course follows all federal anti-trust guidelines.

This course earns 20 credits towards a CCPf certification in the Operations and Production career track.

The CCPf certification is the highest professional designation in the industry.

For more information, visit

[www.nrmca.org/steps](http://www.nrmca.org/steps)



**PAVE AHEAD**

DURABLE. SUSTAINABLE. CONCRETE.

**BUILD WITH STRENGTH**

A COALITION OF THE NATIONAL READY MIXED CONCRETE ASSOCIATION

The Concrete Technologist Training and Certification Course "Short Course", has provided intensive training and certification on the fundamentals of concrete, aggregates and concrete making materials since 1964. The following certifications can be obtained:

- NRMCA Concrete Technologist, Level 2
- NRMCA Concrete Technologist, Level 3
- NRMCA Field Testing Technician Grade II Certification

The "Short Course" is a 5-day program, with 4 days of training followed by certification exams. The course emphasizes nationally accepted standard procedures and practices by referencing ACI and ASTM documents for quality control and production of ready mixed concrete.

**Morning sessions are reserved for classroom instruction and discussions on the following topics:**

- Fundamentals of Concrete
- Ready Mixed Concrete & ASTM C 94
- Cement
- Fly Ash
- Slag & Silica Fume
- Aggregates
- Chemical Admixtures
- Statistical Methods
- ACI Code & Specification Requirements
- Testing Hardened Concrete
- Concreting in Extreme Weather
- Managing Returned Concrete
- Quality Control Procedures
- Handling, Placing & Finishing

**Afternoon sessions include working groups on:**

- Calculations in concrete and aggregate technology: aggregate moisture, specific gravity relative density with weight to volume relationships, aggregate gradations, concrete mixture proportioning, statistical calculations and ACI requirements.
- NRMCA Field Testing Technician Grade II Certification. Instruction on the eight standards that are included in this certification.
- Aggregates Laboratory: demonstrations on aggregate sampling and test methods.

NRMCA Field Grade II is an optional certification offered at the Short Course and covers the following standards: C31 (making and curing beams); C42 (cores); C94 (ready mix spec); C803 (Windsor probe); C805 (rebound hammer); C1611 (slump flow for SCC); C1688 (density of pervious); and C1702 (infiltration of pervious). This certification requires ACI Field I certification as a pre-requisite which is not offered at the Short Course.

Course Texts and References Short Course participants receive NRMCA publications, comprehensive notes on each topic and practice problems sets, Compilation of ASTM Standards, American Concrete Institute (ACI) educational publications, and Portland Cement Association's (PCA) Design and Control of Concrete Mixtures; Summary of standards and study guide for NRMCA Field Grade II certification.

**NRMCA's Concrete Technologist Training  
and Certification Course "Short Course"**  
November 11-15, 2019 | Linthicum, MD  
Monday to Thursday: 7:00 AM – 5:00 PM | Friday: 7:00 AM – 12:00 PM

<i>NRMCA USE ONLY</i>
Date: _____
Member ID: _____
Confirmation# _____

**ATTENDEE INFORMATION**

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Name/Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Emergency Contact Name/Phone: \_\_\_\_\_

Special Needs: \_\_\_\_\_

Please Send Registration/Receipt Confirmation Email to: \_\_\_\_\_

*(Notification does not guarantee class will run)*

**COURSE FEES & PAYMENT AUTHORIZATION**

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\$1,200 NRMCA Member

\$1,500 Non-Member

Check Payment:

*\*by sending a check there will be a delay in processing*

(Make check payable to NRMCA)

SunTrust Bank, c/o NRMCA, P.O. Box 79433 Baltimore, MD 21279

*Registration without payment will NOT be confirmed.*

Select One:  Visa  MasterCard  AMEX

Card Number: \_\_\_\_\_

Exp. Date: \_\_\_\_\_

CVV#: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

**COURSE LOCATION & TRAVEL INFORMATION**

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**Hilton Baltimore BWI Airport**  
1739 W. Nursery Road, Linthicum, MD 21090  
P: (410) 694-0808  
Meeting Room Location: Concourse B

**Hotel Parking:** Self-parking is complimentary. There is no valet parking available.

**Room Rate:** \$139 per night plus applicable taxes.

**Cut-Off Date:** Monday, October 21, 2019, or whenever the room block sells out, whichever occurs first.

**Call-In Code:** NATION

**Reservations:** (410) 694-0808 or [book online](#)

**Closest Airport:** The closest airport is the Baltimore/Washington International Airport (BWI) located 1 mile/3-5 minutes from the course location.

**Transportation:** The hotel does offer a complimentary airport shuttle. A taxi will cost approximately \$15 each way from BWI to the host hotel.

**NRMCA POLICIES & INFORMATION**

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**Cancellation Policy:** Full cancellation refunds, less a \$100 administration fee, will be extended until **October 21, 2019**. All cancellations after January 14 will **not** be refunded. Fee cancellations cannot be transferred to a future class. Substitutions can be made at any time with no penalty. Registration cancellations must be made in writing to: [meetings@nrmca.org](mailto:meetings@nrmca.org).

**Confirmation of Event:** After registration and payment is processed, a registration receipt will be provided (allow up to 72 hours). A class confirmation, confirming the course will run as scheduled, will be sent via email no later than COB, **October 21**,

**2019.** It is advisable not to make travel arrangements until you receive the class confirmation.

**Important/Class Confirmation:** NRMCA reserves the right to cancel this event. Class confirmations will be sent to registrants via email no later than COB, **October 21, 2019**. In the unlikely event the class is cancelled, NRMCA will refund the entire registration fee, but is not responsible for airline and hotel reservation fees. You are responsible for making and paying for your own hotel and travel arrangements.

Return Form to [meetings@nrmca.org](mailto:meetings@nrmca.org) or Fax: (301) 565-8200