

CONCRETE TECHNOLOGY CAREER TRACK

The primary goal of the Concrete Technology Career Track is to provide participants with a comprehensive ready mixed concrete technical education that enables them to establish productive careers in the industry. Candidates who complete the career track demonstrate in class their knowledge of fundamental and advanced topics in ready mixed concrete technology. To this end, the program seeks to impart strong technical competence in fundamental concrete principles along with competence in special topics including financial, managerial, ethical, safety, and environmental concerns relevant to the ready mixed concrete industry. This career track supports the industry's initiatives towards performance specifications (P2P initiative).

Candidates will be exposed to knowledge of fundamentals of quality control, cementitious materials, aggregates, admixtures, water, codes and specifications, proportioning concrete mixtures, batching, mixing and delivery, handling, placing, and finishing concrete, concrete in hot and cold weather, control tests, quality control, and troubleshooting. This knowledge will be obtained from courses that range from Concrete Technology Training to the Concrete Construction Liability Workshop.

Some typical job titles that would benefit from this track are:

- QC Lab Technologist
- QC Field Technologist
- QC Manager
- Technical Services Manager
- Area Manager
- Marketing and Promotion Manager
- Sales Manager

**You may be well on your way to completing your Concrete Technology Career Track CCPf.
Use the below check list to “track” your progress.**

Certification Requirements (120 hours)

PREREQUISITES (1 of 3 below)*

- ☐ Introduction to Concrete Fundamentals: Concrete 101 (CCSP Module I) Certification (24 hours)
- ☐ Plant Manager Certification Course Certification (24 hours)
- ☐ Affidavit of 2 years technical work experience signed by direct supervisor

REQUIRED COURSES (60 hours)*

- ☐ Concrete Technology Training and Certification (Technical Short Course), earning Level 2 (32 hours)
- ☐ Concrete Durability Course (16 hours)
- ☐ Handling Concrete Specifications, Low Strength Problems and Mixture Submittals OR Improving Concrete Quality (8 hours)
- ☐ Online learning offerings on concrete technology from NRMCA or other organizations (4 hours)

NRMCA SUGGESTED ELECTIVES (36 hours minimum)*

- ☐ Achieve Concrete Technologist Level 3 Certification (4 hours)
- ☐ Pass exam at Durability Course (or Level 4) (4 hours)
- ☐ Pervious Concrete Contractor Certification (8 hours)
- ☐ Approved NRMCA Plant Inspector or Assistant (8 hours)
- ☐ NRMCA Improving Concrete Quality OR Handling Concrete Specifications, Low Strength Problems and Mixture Submittals OR Improving Concrete Quality (8 hours)
- ☐ NRMCA Field Testing Technician Grade II (8 hours)
- ☐ Design of Concrete Pavements (online) (6 hours)
- ☐ Design of Concrete Parking lots – ACI 330 (4 hours)

- ☐ Environmental Course and Certification (20 hours)
- ☐ Safety Course and Certification (20 Hours)
- ☐ Concrete's Role in Sustainable Development, earning NRMCA Certified Concrete Sustainability Specialist (10 hours)
- ☐ Building Green with Concrete, earning NRMCA Certified Green Building Specialist (8 hours)
- ☐ Life Cycle Assessment of Concrete Structures (6 hours)
- ☐ Pervious Concrete – A Stormwater Solution (6 hours)
- ☐ Understanding the Concrete Contractor's Business: Customer Knowledge (CCSP Module II) Certification (20 hours)
- ☐ NRMCA Developing Industry Leaders program (12 hours)
- ☐ Third party courses – general business principles, financial, legal ethics, and concrete materials or operations workshops (varies)
- ☐ Educational sessions at NRMCA ConcreteWorks (varies)
- ☐ Education sessions at NRMCA Annual Convention (varies)

Other professional development courses offered by NRMCA or other organizations may qualify as ELECTIVES, following an evaluation and approval by NRMCA (see CCPf Certification Rules). College classes do not qualify



www.nrmca.org/steps

Earn a **CCPf**, the highest professional designation in the ready mixed concrete industry.

Questions? Contact Eileen Dickson, edickson@nrmca.org