

Troubleshooting Concrete Construction

ONE DAY, 7.5 HOURS

When you have problems with concrete, this seminar provides the solutions

Program Content:

■ Problems with Fresh Concrete

- Admixture incompatibility
- False set
- Plastic shrinkage cracking
- Rapid slump loss
- Variation in air content

■ Problems with Slabs

- Abrasion loss
- Carbonation
- Cracking
- Curling
- Discoloration
- Drying shrinkage
- Flatness
- Joint failure
- Placement of reinforcement
- Popouts
- Scaling
- Identification of deterioration

■ Problems with Vertical Concrete

- Air surface voids
- Bug holes
- Form offsets
- Form sticking
- Honeycombing
- Streaking layer lines
- Identification of deterioration

■ Problems with Structural Concrete

- Cracks, and what they mean
- Fire damage evaluation
- Load tests
- Identification of deterioration

■ Field and Laboratory Techniques Used in Concrete Problem Solving

- Visual observation
- Impact-rebound
- Windsor probe
- Petrography
- Chemical test

Who should attend:

Contractors, design engineers, specifiers, government agencies, and material suppliers

Instructors:

Douglas W. Deno, Jerome H. Ford, Frank A. Kozeliski, W. Calvin McCall, Charles K. Nmai, and Luke M. Snell. For more detailed information on the faculty, go to www.concreteseminars.com.

Seminar handouts:

- Specifications for Structural Concrete (ACI 301)
- Guide for Concrete Floor and Slab Construction (ACI 302.1R)
- Guide to Cast-in-Place Architectural Practice (ACI 303R)
- Standard Specification for Cast-in-Place Architectural Concrete (ACI 303.1)
- Guide to Curing Concrete (ACI 308R)
- Identification and Control of Visible Effects of Consolidation on Formed Concrete Surfaces (ACI 309.2R)
- Course Notes authored by the instructors

