

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, Frank A. Kozeliski, W. Calvin McCall, Charles K. Nmai, and Luke M. Snell.

Seminar handouts:

- Specifications for Structural Concrete (ACI 301)
- Guide for Concrete Floor and Slab Construction (ACI 302.1R)
- Guide to Cast-in-Place Architectural Concrete Practice (ACI 303R)
- 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



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