Repair of Concrete

In-House Seminar
TWO DAYs, 15 HOURS (15.0 PDHs/0.15 CEUs)
In-depth strategies and techniques for reliable concrete repairs

Who should attend: Owners and facility managers, concrete specialists and general contractors, civil and structural engineers, material suppliers, and architects

### Program Content:

#### Day One

**Condition Survey**
Assessing damage and deterioration; Load testing; Identifying the causes; Developing reports; Nondestructive testing techniques

**Repair Materials**
Polymer-modified cements; Cementitious material selection process; Polymers

**Surface Preparation**
Equipment; Methods

**Placement Methods**
Concrete placement; Polymer placement; Other techniques

**Crack and Joint Repairs**
Identifying cracks and causes; Expansion joints; Contraction joints; Techniques

**Questions and answers**

#### Day Two

**Repair of Corrosion-Damaged Structures**
Bridge and transportation structures; Façade and balcony; Parking garages and plazas; Civil structures

**Protective Systems for Concrete Structures**
Membranes and waterproofing; Sealers and coatings

**Structural Repair and Strengthening of Concrete Elements**
Post-tensioning repair; Shear collars; External post-tensioning; Other techniques; Carbon and glass fiber reinforcement

**Specifications and Contract Documents**
General conditions; Bidding strategies; Technical sections

**Group Exercise**
An actual case study will be presented and based on what was learned at the seminar. Participants will break into small discussion groups to review the projects and recommend an appropriate repair system

### Related Documents:
To expand attendees knowledge, ACI In-House Seminar customers may purchase multiple copies of related documents at 50% off the regular price.

- Guide to Formwork for Concrete (ACI 347)
- Guide for Shoring/Reshoring of Concrete Multistory Buildings (ACI 347.2R)
- Specifications for Tolerances for Concrete Construction and Materials and Commentary (ACI 117)
- Identification and Control of Visible Effects of Consolidation on Formed Concrete Surfaces (ACI 309.2R)
- Guide to Cast-in-Place Architectural Concrete Practice (ACI 303R)

### Instructors:
Two industry experts will present this seminar.

Up to 40 copies of the presentation slides included. Additional copies can be purchased.

ACI is an approved education provider for AIA and ICC.