Learning Objectives:

- Determine what design code should be implemented for the assessment and repair or strengthening of an existing structure.
- Understand that new members added and their connections to an existing structure are based on the current building code.
- Explain the objective of a concrete repair code, which is to produce a document that provides a uniform set of requirements that is flexible and addresses the overall repair issues such as conventional reinforced concrete, prestressed concrete, or fiber reinforced polymer repair methods.
- Understand that evaluation is the first step in the assessment and repair process to determine if a structure is in compliance with the original design code and if it is safe.

Program Content:

In 2019, the American Concrete Institute published a new ACI 562 code on assessing, repairing, and rehabilitating existing concrete structures. It is the first U.S. code produced specifically for the repair of existing reinforced concrete structures. This performance-based code offers flexibility in the design and produces consistency in the repair industry.

Topics covered in this presentation include:

- Philosophy behind ACI 562
- Need for a repair code
- Major types of cracks in concrete
- Consistent repair design
- Repair construction challenges
- Significance of a quality assurance program for a successful repair
- Benefits for the owner
- Examples throughout the presentation to highlight the major issues
- A real-life repair example to demonstrate the overall use of the repair code
- A guide document for the code with additional information and project examples that help users interpret the code requirements will also be highlighted.

Instructors:

Two industry experts will present this seminar.

Related Documents:

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

- 562-19: Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary
- MNL-3(16) Guide to the Code for Assessment, Repair, and Rehabilitation of Existing Concrete Buildings

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