

ACI/PCA 318-11 Building Code

ONE DAY, ATTENDEES RECEIVE 0.75 CEUs OR 7.5 LUs, WORTH 7.5 PDHs

Learn the significant changes in the 2011 edition of ACI 318

The American Concrete Institute and the Portland Cement Association are jointly offering this one-day seminar on the changes in the 2011 edition of ACI 318.

Program Content:

This seminar, which is cosponsored by ACI and the Portland Cement Association (PCA), will cover all the major changes in the 2011 edition of ACI 318. A major portion of the revisions are related to the addition of adhesive anchors in ACI 318 for the first time. In addition to the new anchor design requirements, the seminar will cover adhesive anchor evaluation requirements and new provisions requiring certification of the anchor installer under certain circumstances. Changes to reinforcing steel detailing requirements, allowable grades, and coating types will also be covered.

Important topics, such as detailing for structural integrity and designing using the latest in strut-and-tie modeling, will be presented and discussed.

Specific topics covered in the seminar include the following:

- Design of adhesive anchors;
 - Failure modes and corresponding nominal strengths;
 - Requirements for testing and evaluation of adhesive anchors for use in both cracked and uncracked concrete;
 - Adhesive anchors subject to sustained loads;
 - Criteria for overhead adhesive anchors;
 - Seismic requirements for anchoring to concrete;
 - Installation and inspection of adhesive anchors; and
 - Certification of adhesive anchor installers;
- Enhanced reinforcement detailing for seismic applications;
- New test methods for sulfate resistance;
- New deformed bars;
 - Grade 80 deformed bars (ASTM A615 and A706) for non-seismic applications;
 - Zinc and epoxy dual-coated reinforcing bars (ASTM A1055);
- Test records up to 24 months old to determine standard deviation for mixture proportioning;
- Testing agency performing acceptance testing concrete to comply with ASTM C1077;
- Detailing of circular column ties;
- Design and detailing of temperature and shrinkage reinforcement for post-tensioned slabs;
- Factored load combinations conforming with those of ASCE 7-10;
- Minimum reinforcement for deep beams;
- Detailing for structural integrity;
- Designing with strut-and-tie models; and
- Development length of headed bars.

Who should attend:

Structural engineers, specifiers, building officials, contractors, architects, and inspectors interested in keeping up with the latest information in concrete design and construction.

Instructors:

Neal S. Anderson, Catherine E. French, Robert J. Frosch, Dominic J. Kelly, Larry C. Novak, and Andrew W. Taylor.

Seminar handouts:

Building Code Requirements for Structural Concrete and Commentary (ACI 318-11)

PCA Notes on 318-08 and PCA Notes on ACI 318-11 companion publication in electronic format

Seminar lecture notes



American Concrete Institute

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