

## ACI/PCA 318-08 Building Code

ONE DAY, 7.5 HOURS

Learn the significant changes in the 2008 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 2008 edition of ACI 318.

### Program Content:

There are many important changes in ACI 318-08. The licensed design professional is required to assign exposure categories and classes based on the severity of the anticipated exposure of structural members to achieve durability. Requirements are presented to select effective stiffness to determine lateral deflections. A new simple procedure helps determine if compression members are considered braced or unbraced. Provisions are introduced for the design of headed stud assemblies. Design and detailing requirements are correlated with the Seismic Design Categories in the IBC. The use of high strength confining steel is permitted to help reduce congestion. The beneficial effect of supplementary reinforcement and anchor reinforcement on the capacity of anchors is quantified.

Some of the major topics covered in this seminar include:

- New provisions for headed shear stud reinforcement and headed deformed bars
- Licensed design professional to prescribe new exposure categories and classes for durability requirements
- Enhanced structural integrity requirements
- Modeling procedure for evaluation of lateral displacements
- Increased allowable concrete compression stress immediately after prestress transfer
- Use of supplementary reinforcement and anchor reinforcement to enhance the capacity of anchors
- Ductility requirements for anchors in seismic zones
- Reorganized and enhanced provisions for earthquake-resistant structures in order of increasing seismic design category
- Increased design yield strength for confinement reinforcement to help reduce congestion

Also covered in this seminar are the following topics:

- Introduction of “shear cap” and differentiation with “drop panel” for two-way slabs
- Strength test based on three 4 x 8 in. cylinders or two 6 x 12 in. cylinders
- A 12-month limit set on historical data used to qualify mixture proportions
- Modified strength reduction factors for spirally reinforced columns and plain concrete
- Simple procedure to define braced and nonbraced compression members, and reorganized column slenderness provisions
- Limits on depths of beams and hollow core units exempted from the requirement for minimum shear reinforcement
- Steel fiber-reinforced concrete as an alternative to minimum shear reinforcement
- Modified limit on shear friction strength for monolithically placed concrete and concrete placed against intentionally roughened concrete
- Modified load factors for required test load

### Who should attend:

Engineers, architects, specifiers, building officials, and all others involved with structural concrete.

### Instructors:

Ronald A Cook, Charles W. Dolan, Catherine E. French, S.K. Ghosh, James R. Harris, Neil M. Hawkins, Dominic J. Kelly, Cary Kopczynski, Larry C. Novak, Basile G. Rabbat, Julio A. Ramirez, and James K. Wight. For more detailed information on the faculty, go to [www.concreteseminars.com](http://www.concreteseminars.com).

### Seminar handouts:

Building Code Requirements for Structural Concrete and Commentary (ACI 318/318R)  
 PCA Notes on 318-08  
 Seminar lecture notes

