

# ACI/PCA 318-08 Building Code

A One - Day Seminar

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## Overview

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 design of headed stud assemblies. Design and detailing requirements are correlated with the Seismic Design Categories in the IBC. 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.

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## Free Publications

As part of the seminar, you will receive **FREE** the following publication(s) a **\$298.00** value:

	PCA notes on ACI 318-08
<b>EB0708</b>	
<b>ACI 318-08/318R-08</b>	ACI 318-08 Building Code Requirements for Structural Concrete & Commentary
	Seminar lecture notes

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## Who should attend?

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

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## Seminar Topics

### Major topics to be covered in this seminar:

- Correlation of design requirements for earthquake-resistant structures with the Seismic Design Categories used by the ASCE/SEI 7-05 and the 2006 IBC
- New requirements for headed shear stud reinforcement, headed deformed bars, stainless steel bars, and high strength steel bars
- Licensed design professional to prescribe new exposure categories and classes for durability requirements
- 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
- Enhanced structural integrity with Class B lap splices and continuous top and bottom structural integrity reinforcement passing through column core
- Modeling procedure for evaluation of lateral displacements
- Simple procedure to define braced and non-braced compression members
- Design provisions for headed stud assemblies as shear reinforcement for slabs and footings
- Increased allowable concrete compression stress immediately after prestress transfer
- Reorganized and enhanced provisions for Earthquake-Resistant Structures in order of increasing Seismic Design Category
- Use of supplementary reinforcement and anchor reinforcement to enhance the capacity of anchors
- Ductility requirements for anchors in seismic zones

### Also covered in this seminar are the following topics:

- Unified handling of lightweight concrete in design equations
- ACI 332 referenced for residential cast-in-place footings, foundation walls, and slabs-on-ground for one- and two-family dwellings and townhome
- "Minimum cover" replaced with "specified cover"
- Transverse reinforcement to confine structural integrity reinforcement in perimeter beams
- Redistribution of positive moments in continuous flexural members
- Modified strength reduction factors for spirally reinforced columns and plain concrete
- Reorganized column slenderness provisions
- Introduction of "shear cap" and differentiation with "drop panel"
- 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
- Development length of headed deformed bars
- Modified design provisions for slender wall panels
- Structural integrity steel in two-way unbonded post-tensioned slab systems
- Modified load factors for required test load
- New design requirements for most Seismic Design Categories
- Alternative reinforcement scheme for coupling beams
- Increased design yield strength for confinement reinforcement to help reduce

- congestion
- Revisions to boundary element confinement requirements

**Cincinnati, OH**  
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Holiday Inn Cincinnati Airport & Conf. Center  
1717 Airport Exchange Boulevard

Greater Miami Valley Chapter ACI

Instructor(s) for this Seminar will be:  
James R. Harris & Lawrence C. Novak