

# Concrete Repair Basics

A One - Day Seminar

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## Overview

Learn the Best Methods and Materials for Economical and Effective Concrete Repairs.

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## Free Publications

As part of the seminar, you will receive **FREE** the following publication(s) a **\$277.00** value:

<b>ACI 546R-04</b>	Concrete Repair Guide
<b>ACI 437R-03</b>	Strength Evaluation of Existing Concrete Buildings
<b>ACI 364.1R-07</b>	Guide for Evaluation of Concrete Structures Before Rehabilitation
<b>ACI 224.1R-07</b>	Causes, Evaluation, and Repair of Cracks in Concrete Structures
<b>ACI 201.1R-08</b>	Guide for Making a Condition Survey of Concrete in Service
	Seminar lecture notes

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## Who should attend?

Engineers, repair contractors, materials suppliers, and maintenance personnel will learn how to make good quality concrete repairs.

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## Seminar Topics

- **Condition survey**
  - Causes and types of deterioration
  - Evaluate deteriorating concrete
  - Determine the extent of potential damage
  - Assess the consequences and risks of material failures
  
- **Repair techniques**
  - Removal of damaged concrete
  - Preparing existing concrete for repair
  - Patching and overlays
  - Repair techniques such as shotcrete, carbon fiber reinforcing and chloride extraction
  
- **Repair materials**
  - Selection of materials for different repair situations and environments, including:
    - Sealants
    - Protection systems
    - Cementitious materials
    - Polymeric materials
  
- **Cracks and joints**
  - Understanding cracks and joints
  - Causes and effects of cracking
  - Methods of repairing cracks and joints
  - Expansion joints for elevated slabs and slabs on ground
  
- **Applications of repair techniques**
  - Case studies that utilize repair methods and materials for various types of structures.

**Cincinnati, OH**  
May 13, 2009

Holiday Inn Cincinnati Airport & Conf. Center  
1717 Airport Exchange Boulevard

Greater Miami Valley Chapter ACI

Instructor(s) for this Seminar will be:  
James E. McDonald & Michael M. Sprinkel