ACI 562 Concrete Building Evaluation & Repair Training

2027 □□□□ 20 – 16
Cairo (Egypt)



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Ref: 20222852_206606 Location: Cairo (Egypt) Fees: 4200 GBP

Course Description

This 1-week intensive course covers the evaluation, repair, and rehabilitation of concrete buildings according to ACI 562 code requirements. Participants will gain in-depth knowledge of assessment techniques, repair strategies, and rehabilitation methods for existing concrete structures. The course combines theoretical concepts with practical applications, preparing professionals to tackle real-world concrete repair challenges.

Learning Objectives

- Understand and apply ACI 562 code requirements for concrete building assessment and repair
- Master techniques for evaluating existing concrete structures and identifying deterioration causes
- Develop effective repair and rehabilitation strategies for various concrete building issues
- Learn to design and implement durable concrete repairs that meet code standards
- Gain practical skills in selecting appropriate repair materials and methods
- Understand quality assurance procedures and long-term maintenance planning for repaired structures

Course Modules

Day 1: Introduction to ACI 562 and Concrete Building Assessment

- Overview of ACI 562 code requirements and applicability
- Structural condition assessment techniques
- Non-destructive testing methods for concrete
- Deterioration mechanisms in concrete structures

Day 2: Evaluation and Analysis of Existing Concrete Structures

- Load-carrying capacity evaluation
- Durability assessment and service life prediction
- Structural analysis of deteriorated concrete members
- Case studies in concrete building evaluation



Day 3: Repair Design and Material Selection

- Repair strategy development and design criteria
- Selection of repair materials and compatibility issues
- Strengthening techniques for concrete structures
- Repair detailing and specification writing

Day 4: Rehabilitation Techniques and Construction Practices

- Surface preparation and concrete removal methods
- Application techniques for various repair materials
- Crack repair and injection methods
- Quality control and assurance in concrete repairs

Day 5: Long-term Performance and Special Topics

- Durability considerations for repaired structures
- Maintenance planning and periodic assessment
- Sustainability in concrete repair and rehabilitation
- Emerging technologies in concrete repair

Practical Wins for Participants

- Ability to conduct thorough assessments of concrete buildings using ACI 562 guidelines
- Skills to design effective and code-compliant concrete repair solutions
- Knowledge to select appropriate repair materials and techniques for various concrete issues
- Capability to develop long-term maintenance strategies for repaired concrete structures

