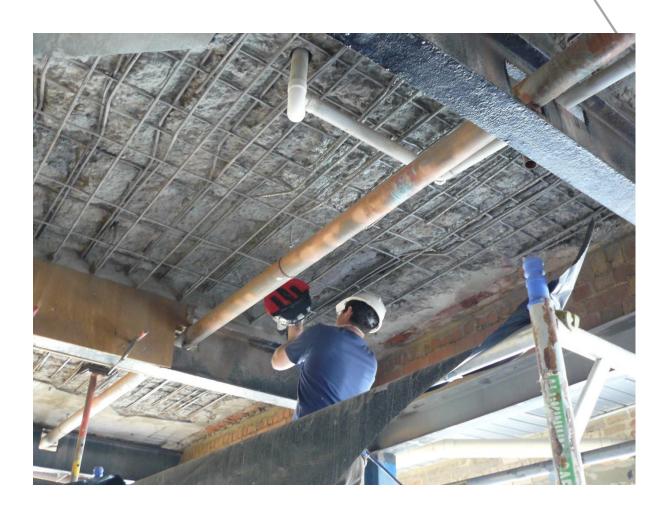


Construction & Repair Of Concrete Structure





Construction & Repair Of Concrete Structure

Course Objective

- ➤ Provide participants with required information about the newly developed reinforced concrete materials.
- ➤ Help participants understand the different test methods for various materials and interpret their test results.
- Assist participants to effectively consult the technical specifications of these materials.
- ➤ Provide participants with troubleshooting methods for material-related problems.

Target Audience

- > Finance professionals
- > Design engineers
- > Architects
- > Supervision engineers
- ➤ Inspectors from public agencies and private sector
- > Contractors
- > Project engineers





Course Outline

Day 1

Introduction and Overview

- > Conventional Concrete Materials Limitations and Problems
- ➤ High Strength Concrete and High Performance Concrete
- Special Constituent materials and Admixtures
- Construction Practices for Concrete in the Gulf
- > Specifics of Gulf Environment
- ➤ Precautions for different concreting operations in the hot weather of Gulf region
- ➤ Definition of hot weather for concreting processes
- Prestressing steel
- Galvanized and epoxy coated bars
- ➤ Non-Traditional Types of Reinforcement Used in Concrete Structures
- ➤ Fiber Reinforced Plastic (FRP) reinforcement for concrete

Day 2

High Strength Concrete: General

- ➤ Importance and Economy
- > Structural Improvement
- Durability Improvement
- ➤ High Strength Concrete: Materials
- ➤ Concerns
- ➤ Slag (GGBS)
- > Fly Ash



- > Silica
- ➤ Placing and Compacting High Strength Concrete
- ➤ Batching and Mixing High Strength Concrete
- ➤ High Strength Concrete: Production
- > Finishing and Curing High Strength Concrete

Day 3

High Performance Concrete

- Definition
- ➤ Importance and Economy
- > Performance Improvement
- > Concerns
- Standard Test Methods for Non-Conventional Concretes and Reinforcement
- Standard specifications for epoxy coated bars
- ➤ Standard specifications for steel wires and strands for prestressed concrete
- ➤ Standard test methods for fresh and Hardened Special concretes
- > Standard test methods for properties of FRP rods
- Specification definition and specified qualifications
- > Specification types, features and format
- ➤ Technical Specifications for Concrete and Reinforcement
- > Sample concrete and reinforcement specifications



Day 4

Latex Modified Concrete: Introduction & Materials

- ➤ Background
- > Standard Specifications and Guides
- ➤ Materials
- ➤ Latex Modified Concrete: Production
- ➤ Mixing and Placing
- ➤ Mix Proportioning
- > Finishing and Curing
- Properties of Fresh LMC
- ➤ Latex Modified Concrete: Properties and Applications
- ➤ Properties of Hardened LMC
- ➤ Applications and Recent Development
- ➤ Durability of LMC

Day 5

Repair Materials for Concrete Structures

- > Required properties in repair materials
- > Types of repair materials
- > Repair methods and techniques
- Sample technical specifications for repair works
- ➤ Dosage and Over Dosage
- ➤ Advanced Concrete Materials: Problems and Solutions
- ➤ Workability
- ➤ Long Term Performance
- Setting and Finishing
- > FRP versus steel reinforcement



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