

Construction & Repair Of Concrete Structure



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➔ 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 pre-stressed 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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- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
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➡ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
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Price (USD)

**Communicate with the training department
to know the participation fees**

➤ **There are offers and discounts for groups**

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