



Consulting and Training | Reach New Heights

Course Name

Concrete is used throughout the world for a wide range of applications. In order to improve the prop

Sector Name

Civil Engineering

Document Type

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Course Introduction

Concrete is used throughout the world for a wide range of applications. In order to improve the properties of concrete, recent advances in material science introduce new materials or admixtures to be added to or replace conventional concrete materials. Such materials could be used in new concrete construction and/or in repairing new or existing structures. These materials could cause more harm than benefit or at least be ineffective if not properly used.

This five-day course will introduce newly developed concrete materials as well as the repair materials utilized in most repair works in concrete structures either for those needed during construction or for rehabilitation of existing structures.

The course will also cover test methods and technical specifications for such materials as well as troubleshooting for their most common problems.

At the end of this course, participants will know the necessary information about the different advanced concrete materials, what tests should be performed and how to interpret their results, what to

look for in specifications and troubleshooting of material related problems.

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Target Audience

- ✓ civil engineers.
- ✓ Experienced Civil Engineers Seeking Professional Development
- ✓ Architects and Urban Planners
- ✓ Entrepreneurs in the Construction Industry
- ✓ Project Managers in the Construction Industry

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Learning Objectives

- ✓ Provide participants with required information about the newly developed reinforced concrete materials.
- ✓ Help them 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 them with troubleshooting methods for material-related problems.

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Course Outline

✓ DAY 01

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 the Gulf Environment
- ✓ Definition of hot weather for concreting processes
- ✓ Precautions for different concreting operations in the hot weather of the Gulf region

Non-Traditional Types of Reinforcement Used in Concrete Structures

- ✓ Galvanized and epoxy-coated bars
- ✓ Prestressing steel
- ✓ Fiber Reinforced Plastic (FRP) reinforcement for concrete

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Course Outline

✓ Day 02

High Strength Concrete: General

- ✓ Importance and Economy
- ✓ Durability Improvement
- ✓ Structural Improvement
- ✓ Concerns

High Strength Concrete: Materials

- ✓ Slag (GGBS)
- ✓ Fly Ash
- ✓ Silica

High Strength Concrete: Production

- ✓ Batching and Mixing High-Strength Concrete
- ✓ Placing and Compacting High-Strength Concrete
- ✓ Finishing and Curing High-Strength Concrete

High Performance Concrete

- ✓ Definition
- ✓ Importance and Economy
- ✓ Performance Improvement
- ✓ Concerns

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Course Outline

✓ Day 03

Standard Test Methods for Non-Conventional Concretes and Reinforcement

- ✓ Standard test methods for fresh and Hardened Special concretes
- ✓ Standard specifications for epoxy-coated bars
- ✓ Standard specifications for steel wires and strands for pre-stressed concrete
- ✓ Standard test methods for properties of FRP rods

Technical Specifications for Concrete and Reinforcement

- ✓ Specification definition and specified qualifications
- ✓ Specification types, features, and format
- ✓ Sample concrete and reinforcement specifications

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Course Outline

✓ Day 04

Latex Modified Concrete: Introduction & Materials

- ✓ Background
- ✓ Standard Specifications and Guides
- ✓ Materials

Latex Modified Concrete: Production

- ✓ Mix Proportioning
- ✓ Mixing and Placing
- ✓ Finishing and Curing

Latex Modified Concrete: Properties and Applications

- ✓ Properties of Fresh LMC
- ✓ Properties of Hardened LMC
- ✓ Durability of LMC
- ✓ Applications and Recent Developments

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Course Outline

✓ Day 05

Repair Materials for Concrete Structures

- ✓ Required properties in repair materials
- ✓ Types of repair materials
- ✓ Repair methods and techniques
- ✓ Sample technical specifications for repair works

Advanced Concrete Materials: Problems and Solutions

- ✓ Dosage and Overdose
- ✓ Workability
- ✓ Setting and Finishing
- ✓ Long Term Performance
- ✓ FRP versus steel reinforcement

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 30, 2027	Sept. 3, 2027	5 days	4950.00 \$	Austria , Vienna
Jan. 11, 2027	Jan. 15, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	KSA , Riyadh
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Dubai

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