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Course Name

Advanced Concrete Technology

Sector Name

Civil Engineering

Document Type

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Advanced Concrete Technology

Course Introduction

Concrete Technology

This course will provide engineers, architects, technologists, and field inspectors with a comprehensive understanding of modern concrete technology, covering all aspects from mixture design, to transporting, to handling, to curing to field control tests and on-site performance. Students will also take home soft copies of the chapters and presentations summarizing each chapter.

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Target Audience

Engineers, architects, technologists, and field inspectors.

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Advanced Concrete Technology

Learning Objectives

- ✓ Understand the fundamentals of concrete composition and properties.
- ✓ Identify the types and roles of Portland, blended, and other hydraulic cements.
- ✓ Analyze the use of supplementary cementitious materials.
- ✓ Evaluate the significance of mixing water, aggregates, and admixtures in concrete performance.
- ✓ Recognize the applications of fibers, fiber-reinforced concrete, and air-entrained concrete.
- ✓ Apply principles of concrete mixture design and proportioning for various construction needs.
- ✓ Demonstrate knowledge of batching, mixing, transporting, and handling concrete mixtures effectively.
- ✓ Explain techniques for placing, finishing, and curing concrete under different conditions.
- ✓ Address challenges of hot-weather concreting and volume changes in concrete.
- ✓ Conduct field control tests to assess quality and performance of concrete.
- ✓ Explore the properties and applications of high-performance and special types of concrete.
- ✓ Integrate modern concrete technology practices into real-world field inspection and project management

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Advanced Concrete Technology

Course Outline

✓ DAY 01

Fundamentals of Concrete

- ✓ Portland, blended, and other hydraulic cements
- ✓ Fly ash, slag, silica fume, and other natural pozzolans
- ✓ Mixing water for concrete

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Course Outline

✓ Day 02

Aggregates for concrete

- ✓ Admixtures for concrete
- ✓ Fibers and fiber-reinforced concrete
- ✓ Air-entrained concrete

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Course Outline

✓ Day 03

Designing and proportioning normal concrete mixtures

- ✓ Batching, mixing, transporting, and handling concrete mixtures
- ✓ Placing and finishing concrete
- ✓ Curing concrete

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Course Outline

✓ Day 04

Hot-weather concreting

- ✓ Volume changes of concrete
- ✓ Control tests for concrete

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Course Outline

✓ **Day 05**

High-performance concrete

- ✓ Special types of concrete

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Dubai
June 29, 2026	July 3, 2026	5 days	5950.00 \$	switzerland , Geneva
Nov. 2, 2026	Nov. 6, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	Qatar , Doha

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