



Civil Engineering

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.

Target Audience

Engineers, architects, technologists, and field inspectors.

Learning Objectives

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.

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

• Day 02

Aggregates for concrete

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

• Day 03

Designing and proportioning normal concrete mixtures

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

• Day 04

Hot-weather concreting

- Volume changes of concrete
- Control tests for concrete

• Day 05

High-performance concrete

- Special types of concrete

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 30, 2025	July 4, 2025	5 days	5950.00 \$	Switzerland - Zurich
Sept. 29, 2025	Oct. 3, 2025	5 days	4250.00 \$	UAE - Dubai
Oct. 27, 2025	Oct. 31, 2025	5 days	4250.00 \$	UAE - Dubai