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Course Name

Engineering Materials For Buildings and Bridges

Sector Name

Civil Engineering

Document Type

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Engineering Materials For Buildings and Bridges

Course Introduction

The goal of this course is to provide participants with an advanced understanding of the properties of traditional and emerging materials used in buildings and bridges.

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Target Audience

- ✓ Chief Engineer
- ✓ Civil Engineer
- ✓ Commissioning Engineer
- ✓ Construction Engineer

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Engineering Materials For Buildings and Bridges

Learning Objectives

- ✓ Recognize and understand the engineering properties of materials used in the construction of bridges and buildings
- ✓ Select the appropriate material to achieve particular design goals
- ✓ Understand the advantages, disadvantages, and limitations of such materials
- ✓ Make informed design decisions to select materials for enhancing the structural performance, serviceability, and durability of buildings and bridges
- ✓ Use such materials in optimal combination in hot and humid environments

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Course Outline

✓ DAY 01

High-performance concrete

- ✓ Self-consolidating concrete
- ✓ Fibre-reinforced concrete

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Course Outline

✓ Day 02

Lightweight concrete

- ✓ Polymer-modified concrete
- ✓ Sprayed concrete (shotcrete)

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Course Outline

✓ Day 03

Epoxy-coated steel reinforcement

- ✓ Galvanized steel reinforcement
- ✓ Emerging corrosion-resistant steel reinforcement
- ✓ Fibre-plastic reinforcement (FRP)
- ✓ Hybrid reinforcement new technology

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Course Outline

✓ Day 04

Specifications and standards for engineering materials

- ✓ Laboratory and field testing
- ✓ Smart materials and smart structures
- ✓ Novel materials and emerging applications

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Course Outline

✓ **DAY 05**

Examples and case studies

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 $	UAE , Dubai
Dec. 27, 2026	Dec. 31, 2026	5 days	4250.00 $	Oman , Muscat
May 24, 2027	May 28, 2027	5 days	4250.00 $	UAE , Dubai
Aug. 2, 2027	Aug. 6, 2027	5 days	4950.00 $	France , Paris
April 4, 2027	April 8, 2027	5 days	4250.00 $	KSA , Riyadh

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