



Consulting and Training | Reach New Heights

Course Name

Road Construction Materials and Construction Technologies

Sector Name

Civil Engineering

Document Type

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Road Construction Materials and Construction Technologies

Course Introduction

An innovative highway industry provides a major market for the use of 'waste' resources, at the same time minimizing the need for 'natural' resources. Selected waste streams and industrial by-products, formerly bound for a landfill, are more frequently finding a route into sustainable highway design and maintenance.

Asphalt pavements, concrete, base courses, and embankments increasingly have incorporated 'waste' resources instead of raw materials. Reclaimed concrete and asphalt, scrap tires, plastics, steel slag, roofing shingles, coal fly ash, and composted municipal organic wastes are proven, cost-effective, and high-efficiency materials with broad applicability in roadway construction.

Other environmentally sustainable actions beyond mere building materials include right-of-way management, the reuse of organic materials from cleaning and grubbing operations, deconstruction of buildings removed from rights-of-way, and minimal right-of-way footprints.

Road Construction Materials and Construction Technologies

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

- ✓ Identify the road materials and material properties in construction and materials used in road pavements and etc.
- ✓ Enumerate the different types of asphalt mixtures as well as the design of asphalt concrete mixture, which also applies testing, specification of methods, and the Marshall method
- ✓ Implement quality control and quality assurance in road construction
- ✓ Enhancing the skills of road construction engineers in their field
- ✓ Introduction to road construction materials
- ✓ Determination of engineering properties of road materials
- ✓ Quality control and quality assurance in road construction

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Course Outline

✓ DAY 01

An introduction to road construction materials

- ✓ The used materials for road embankment, road pavement (gravel roads, surface-dressed roads, paved roads, etc.)
- ✓ Material properties
- ✓ Soil and subbase: Standard tests to determine the engineering properties of road materials
- ✓ Standard tests to determine the engineering properties of road materials

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Course Outline

✓ Day 02

Asphalt Mixtures

- ✓ Types of Asphalt Mixtures
- ✓ Hot mix asphalt concrete
- ✓ Warm mix asphalt concrete
- ✓ Cold mix asphalt concrete

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Course Outline

✓ Day 03

Design of Asphalt Concrete Mixture

- ✓ Testing of materials used in the asphalt mix (course aggregate, fine aggregate, mineral filler, binder, etc.)
- ✓ Specification requirements
- ✓ Blinding of aggregate
- ✓ Graduation of blinded aggregates
- ✓ Marshal method for design of asphalt mixtures, volumetric relationships, optimum bitumen content, tolerance, job mix formula

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Course Outline

✓ Day 04

Quality Control and Quality Assurance in Road Construction

- ✓ The importance of quality control in road construction processes
- ✓ Selecting materials sources
- ✓ Testing of materials
- ✓ Inspection of the executed work
- ✓ Testing the executed work
- ✓ Filling in the test results for the quality assurance process
- ✓ Quality assurance in road construction processes

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Course Outline

✓ Day 05

Road Construction Technology

- ✓ Introduction to the new technologies in road construction
- ✓ New equipment, new techniques used in road construction

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Confirmed Sessions

| FROM | TO | DURATION | FEES | LOCATION |
|----------------|----------------|----------|------------|----------------|
| Oct. 26, 2026 | Oct. 30, 2026 | 5 days | 4250.00 \$ | UAE , Dubai |
| Aug. 17, 2026 | Aug. 21, 2026 | 5 days | 4950.00 \$ | Spain , Madrid |
| Jan. 11, 2027 | Jan. 15, 2027 | 5 days | 4250.00 \$ | UAE , Dubai |
| April 12, 2026 | April 16, 2026 | 5 days | 4250.00 \$ | KSA , Riyadh |

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