Courses Instructors:

Dr. Eyad Masad, P.E.
Dr. Masad has more than 15 years of experience in the characterization of asphalt pavement materials, asphalt mixture design, and asphalt pavements design. He is a professor of civil engineering at Texas A&M University and a professor of mechanical engineering at Texas A&M University at Qatar. He is the co-author of the textbook “Pavement Materials and Design” which is widely used all around the world. Dr. Masad has been a consultant on major projects in the United States and in the Middle East. He has conducted extensive characterization of asphalt pavement materials and analysis of asphalt pavement performance in Qatar.

Dr. John D’Angelo, P.E.
Dr. D’Angelo is an international consultant. He spent about thirty years working for the Federal Highway Administration (FHWA). He led the asphalt team of the FHWA in the implementation of the Superpave in the United States. He developed innovative methods for the characterization of asphalt binders. He has also published manuals and procedures for field quality control and quality assurance.

Dr. Ervin Dukatz, P.E.
Dr. Dukatz is the Vice President for Materials and Construction in Mathy Construction. He has 30 years of experience working for major construction and materials companies in the United States. He specializes in quality control and quality assurance systems, construction of asphalt pavements, and research and development of new products. He published research papers and manuals for field quality control and quality assurance, construction and materials characterization.

This Program Will Address:

• Quality Control (QC) and Quality Assurance (QA) Processes.
• Responsibilities of Owners, Consultants and Contractors in QA/QC.
• Payment Factors and Relationship to Quality.
• Hands-on Development of Quality Monitoring Charts and Assessment Methods.
• Plant Operations.
• Construction Processes and Equipment.

Learning Outcome:

Upon completion of the course, participants will be able to:

• Know the steps involved in preparing project-level field management system.
• Learn best practices for developing and implementing a QC/QA system.
• Know the responsibilities of project owner engineers, consultants and contractors.
• Know how to calculate pay factors based on test results.
• Learn optimum methods for operating plants.
• Learn best practices for construction of asphalt pavements.

Who Should Attend?

• Project owner engineers.
• Contractors.
• Testing laboratories and consultants who have responsibilities and interests in supervision of field construction practices.

Agenda:

Day 1

• Development of project-level field management system.
• Best practices for developing and implementing a QC/QA system.

Day 2

• Responsibilities of project owner engineers, consultants and contractors in QA/QC.
• Hands-on calculations of project quality indicators and pay factors.

Day 3

• Plants optimum operations.
• Best practices for construction of quality asphalt pavements.
• The relationship of material properties and construction practices to performance.

Day 4

• Field trip to demonstrate experiences learned from this course.
• Paving and laydown operations.
• Plant operations.

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