



Quality in the Concrete Paving Process

Workshop Background

FHWA is offering a 2-day workshop to state highway agencies and contractors covering the benefits of a good Quality Assurance program and how it can be used to increase the longevity of concrete, focused around concrete pavements, but applicable to all concrete uses. This can be accomplished through a focus on quality in the constructed product. It will emphasize that everyone must understand their roles and impacts on the overall quality of pavement. This effort will benefit everyone involved in the project, both in a global sense and a personal sense. This is not a workshop about the details of Quality Assurance. It is a practical overview of what leads to increased quality with real world examples and helpful in-the-field reference materials.

The workshop is free with a maximum of 30 attendees to encourage participation

The FHWA Mobile Concrete Trailer (MCT) has tested concrete on an active PCC paving project in your state and collect test data prior to the workshop. The MCT provides an opportunity to demonstrate technologies to agency and contractor staff. Data from this testing will be incorporated into the workshop to illustrate the principles covered with actual local examples.

Who Should Attend?

- Central Office DOT Construction Staff
- Central Office DOT Materials Staff
- District/Region DOT Construction Staff
- District/Region DOT Materials Staff
- Contractor Superintendents
- Contractor QC Managers
- FHWA Division Office Staff

A combination of contractor and agency attendees is very important to facilitating meaningful discussion and a successful workshop.



What Will You Learn?

This is a multifaceted approach to increasing the knowledge and potential benefits of the Quality Assurance process.

- Introduction to Quality Assurance
- New Testing Technologies
- Quality Control
 - What makes durable concrete?
 - Why do we test?
 - What do we test?
 - QC Plan
- Agency Acceptance
 - Material Acceptance
 - What is important?
 - Targets vs. limits
 - Construction Inspection
 - Follow the QC Plan
 - Approach to QA

Program Materials

Workshop participants will be provided with:

- Participant Manual
- Flash Drive containing the Participant Manual, Field Quality Guide, Testing Guide, IMCP Manual, and ACPA Concrete Pavement Field Reference Series for pre-paving and paving along with other reference materials.

Workshop Training Instructors:

Mike Praul, P.E.

Office of Preconstruction,
Construction, and Pavements

Bob Conway, P.E.

FHWA Resource Center

Jim Grove, P.E.

ATI Inc., Consultant to FHWA
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Jagan Gudimettla, P.E.

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AGENDA

Day 1

Introduction

Concrete Materials

Quality Assurance Concepts

Concrete Properties and Testing

Day 2

Quality Control and Agency Acceptance

The Paving Process

Utilizing Quality Concepts

Performance Engineered Mixtures

Quality in Field Practice