COURSE AGENDA

MIX DESIGN TECHNOLOGIES WORKSHOP

Day 1 (8:00 am to 5:00 pm)

Welcome, Safety, & Introductions

Asphalt Materials – Section 1

Binder Lab Testing Overview

BREAK

Mix Design and Volumetric Concepts – Section 2

Introduction to Aggregate – Section 3

LUNCH

Aggregate Properties and Criteria – Section 4

BREAK

Aggregate Properties and Criteria – Section 4, continued

Aggregate Analysis for Mix Design – Section 5

Hand out aggregate homework

ADJOURN

Day 2 (8:00 am to 5:00 pm)

Aggregate Analysis for Mix Design – Section 5 (continued)

HMA Volumetric Analysis – Section 6

BREAK

HMA Volumetric Analysis – Section 6

Trial Blend Analysis – Section 7

LUNCH

Mix Design Calculations (hand out homework for aggregate properties, gradation & mix design)

Superpave Mix Design and Analysis – Section 8

Marshall Mix Design and Analysis – Section 9

BREAK

Moisture Sensitivity Testing: AASHTO T-283 – Section 10

RAP Binder Recovery, Testing, and Blending Charts – Section 11

Time to work on homework or leave early

ADJOURN

Day 3 (8:00 am to 5:00 pm)

Homework Review – (Combined gradations, aggregate calculations, mix volumetrics)

BREAK

Homework Review – (Combined gradations, aggregate calculations, mix volumetrics)

Reclaimed Asphalt Pavement (RAP) Mix Design – Section 12

LUNCH

Reclaimed Asphalt Pavement (RAP) Mix Design – Section 12

Performance Testing Overview – Section 13

BREAK

Designing SMA, OGFC, and WMA Mixtures – Section 14

Final Homework Review and Q & A (for those who want to stay)

ADJOURN

Day 4 (8:00 am to 12:00 pm)

Optional Certification Exam

ADJOURN – End of Examination