

**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**

**Moisture Sensitivity Testing: AASHTO T-283 – Section 9**

**BREAK**

**RAP Binder Recovery, Testing, and Blending Charts – Section 10**

**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 11**

**LUNCH**

**Reclaimed Asphalt Pavement (RAP) Mix Design – Section 11**

**Performance Testing Overview – Section 12**

**BREAK**

**Designing SMA, OGFC, and WMA Mixtures – Section 13**

**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**