

Application of Asphalt Emulsions

Certificate 2

of the Pavement Maintenance and Rehabilitation Professional Development Courses

Andrew Braham | University of Arkansas Fayetteville, Arkansas, USA



Produced in partnership with:



Application of Asphalt Emulsions

Certificate 2 of the Pavement Maintenance and Rehabilitation Professional Development Courses

Version 1.0, 2017

Andrew Braham

Civil Engineering Department College of Engineering University of Arkansas Fayetteville, Arkansas, USA

Braham, A. (2017). Application of Asphalt Emulsions (Certificate 2). In Pavement Maintenance and Rehabilitation Professional Development Courses, University of Arkansas, Fayetteville, AR, USA.

Produced in partnership with:





Certificate 2

Application of Asphalt Emulsions

Produced in partnership with:





Table of Contents

Lesson 1 Asphalt Emulsion Review	page 1
Lesson 2 Pavement Preservation Overview	page 12
Lesson 3 Fog Seal, Tack Coat and Priming	page 25
Lesson 4 Chip Seals	page 41
Lesson 5 Slurry Seals and Micro Surfacing	page 54
Lesson 6 Scrub Seals and Cape Seals	page 71
Lesson 7 Cold In-place Recycling (CIR) and Full Depth Reclamation (FDR)	page 82
Lesson 8 Cold Mix Asphalt (CMA)	page 101
Lesson 9 Ultra-Thin Bonded Overlay and Hot In-place Recycling (HIR)	page 118
Lesson 10 Patching and Crack Treatment	page 133