



COURSE NUMBER

FHWA-NHI-131142

COURSE TITLE

Full Depth Reclamation (FDR)--WEB BASED

This training was developed by the Transportation Curriculum Coordination Council (TCCC) in partnership with AASHTO and NHI.

Full Depth Reclamation, or FDR, is a rehabilitation technique in which the full thickness of the asphalt pavement and a predetermined portion of the underlying materials (that is, the base, the subbase, and/or subgrade) is uniformly pulverized and blended to provide an upgraded, homogeneous material.

FDR was originally limited to low to medium traffic volume roadways; however, newer and larger equipment options means that FDR now can be used on high traffic volume roadways. There is no upper limit to roadway traffic volumes if a pavement structural design is undertaken as part of the rehabilitation process and traffic control allows for diversion of traffic or travel on a pulverized or stabilized surface without damage.

This Web-based training contains four modules. Module 1 introduces full depth reclamation of pavements. Module 2 presents pre-production activities associated with FDR, including the pre-production meeting, roadway preparation, and FDR equipment. Module 3 covers establishing a control strip and pulverizing material, and explores various methods and agents used for stabilizing reclaimed materials. Module 4 reviews post-production actions following reclamation. It takes approximately 4.5 hours to complete the four modules.

OUTCOMES

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

- Describe why a pre-production meeting is important
- Describe what preparation is needed for a full depth reclamation project
- List the equipment needed for a full depth reclamation project
- Identify the purposes of a control strip
- Describe the process used to pulverize existing pavement material for FDR
- List methods used to stabilize reclaimed materials
- Describe the stabilizing agents and additives used for stabilization of reclaimed materials
- Describe the finishing steps involved in full-depth reclamation
- Identify factors and actions that can affect yield and gradation result
- Describe the different methods of measuring compaction and the effect stabilizing agents may have on the results
- List factors affecting how various FDR mixtures should be cured
- Describe the steps involved in placing the final surface on a pavement
- List criteria for acceptance and payment for FDR pavements

TARGET AUDIENCE

This training is designed for local, county, and state owner agency technicians and inspectors. It is also useful for individuals seeking awareness or basic understanding of the topic. This training was developed by the Transportation Curriculum Coordination Council (TCCC) in partnership with AASHTO and NHI, and is recommended for TCCC levels II through IV.



TRAINING LEVEL: Basic

FEE: 2016: \$50 Per Person; 2017: \$50 Per Person

LENGTH: 4.5 HOURS (CEU: 0 UNITS)

CLASS SIZE: MINIMUM: 1; MAXIMUM: 1

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