



Erosion and Sediment Control

This course provides field inspectors and permit reviewers with a view of Theory and concepts related to soil erosion and sediment control processes. Special emphasis is given to identifying potential problems in the permit application and under field conditions. Remedial measures for soil erosion and sediment control are discussed.

Duration: 3 days

TOPICS COVERED

General Introduction

- ▼ Course Objectives
- ▼ Solicits class-identified problems
 - (a) Written and given to instructors

Applicable Regulation and Performance Standards

- ▼ Example of Erosion Control Plan

Problems in the Permit Application

- ▼ Evaluating data submitted
- ▼ Field verification of field problems
- ▼ Students identify problems seen in field
- ▼ Data problems with Natural Resources
- ▼ Case studies (**good, bad, and ugly**)

Problems in the Field

- ▼ Tie permit data to field problems
- ▼ Structure suited to task
- ▼ Structure perform under various condition
- ▼ Always focus on “worst case scenario”

Concepts of Soil Erosion

- ▼ Define erosion and sedimentation
- ▼ Natural and man made factors affecting erosion
- ▼ Slope shape affect erosion
- ▼ Use of erosion equations
- ▼ Operations considerations to minimize erosion

Techniques, Structures and Products For Reducing Soil Erosion

- ▼ Commonly used erosion structures
- ▼ Commonly used erosion products

Final Contour, Suitable Rooting Medium and Final Grading

- ▼ Geomorphic Design
- ▼ Establish a productive rooting medium
- ▼ Role of compaction in runoff
- ▼ FRA (Forestry Reclamation Approach) role in sediment control

Concepts of Stream Flow, Velocity and Scour Components

- ▼ Characteristics of stream flow and how they change

Techniques, Structures and Products to Control Stream/Channel Erosion

- ▼ Use of vegetation
- ▼ Product applications; structures installation and maintenance

The Dynamics of Water and Sediment Movement in a Pond

- ▼ Water circulation in pond varies
- ▼ Sediment pond considerations

Sediment Control and Sediment Ponds

Best Management Practices (BMP)

Field Trip

- ▼ Evaluation of erosion control practices, products and structures

WHO SHOULD ATTEND: Field inspectors, AML field personnel and permit reviewers

COMMENTS: Suggest having taken the Soil and Revegetation course prior to taking this course.

National Technical Training Program: (202) 208-2769